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ABSTRACT

This report reflects postgraduation activities of college students who graduated in Pennsylvania in 1975. While the report does not attempt to say what the relationship between higher education and postgraduation occupations should be, it does clarify what many of these relationships actually are by indicating the demand for and supply of graduates in various fields of study, various degree levels and by institutional control. Data are included on employment status by major discipline and general degree field, relatedness of employment to major field, and out-migration. (Author/MSE)

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POSTGRADUATION ACTIVITIES: ALL DEGREE LEVELS IN PENNSYLVANIA 1975

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Pennsylvania Department of Education 1976

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POSTGRADUATION ACTIVITIES: ALL DEGREE LEVELS IN PENNSYLVANIA 1975

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Purpose

This study, examining the employment status of graduates of all higher education degree levels in Pennsylvania in 1975, seeks to answer such questions as:

...How many graduates were employed? Unemployed? Pursuing advanced degrees?

...Of those employed, how many held jobs outside Pennsylvania?

...How many graduates held jobs for which they had prepared?

...What was the relative degree of employment success for graduates of each major discipline?

...What were the differences in postgraduation activities according to the type of institution?

Procedures

Cooperation by appropriate officials of 117 higher education institutions produced usable data for 36,026 graduates of all degree levels. These graduates represented 40 per cent of all higher education graduates in Pennsylvania in 1975 and 66 per cent of the graduates of the institutions cooperating in the study.

Results

Some findings related to the above questions are as follows:

	Percentage of Graduates			Of Those Employed	
Degree Level	Employed	Not Employed	Pursuing Advanced Degree	Percentage Outside Pa.	Percentage Employed in Field Prepared
Associate	61.8	8.2	30.0	9.9	86.9
Bachelor's	61.0	23.8	15.2	24.6	73.6
Master's	85.3	6.6	8.1	20.7	87.6
Doctor's	92.2	5.8	2.0	48.3	91.9
First Professional	94.3	3.8	1.9	41.4	95.3

As to the degree of employment success, the results of the study indicate a relatively strong demand for bachelor's degree graduates in agriculture and natural resources, engineering, architecture, communications, health professions, theology and computer and information sciences.

A weaker job market faced bachelor's degree graduates of such major disciplines as social studies, education, fine and applied arts, psychology and interdisciplinary studies. Associate degree graduates had a considerably higher per cent pursuing an advanced degree and a much lower proportion unemployed than baccalaureate degree graduates.

At the more advanced degree levels the employment picture was increasingly favorable.

INTRODUCTION

This report, reflecting postgraduation activities of college graduates in Pennsylvania in 1975, is the third in a series; the previous two presented information about only baccalaureate degree recipients in Pennsylvania for 1972 and 1974. Authorized by the Office of Higher Education, Pennsylvania Department of Education, this research is designed to supply information to students, counselors, placement directors, educational planners and other decision makers.

The extent to which higher education should be occupationally oriented has been a topic of considerable interest in recent years. While the report does not attempt to say what the relationship between higher education and postgraduation occupations should be, it does clarify what many of these relationships actually are by indicating the demand for and supply of graduates in various fields of study and at various levels of degrees.

PROCEDURES

Objectives

Answers to these questions were sought: What proportion of graduates for each degree field and degree level was (1) employed in their field of preparation, (2) employed in another field, (3) employed outside Pennsylvania, (4) unemployed, or (5) pursuing advanced degrees? What is the employment status (employment over unemployment) of graduates for each field of study and degree level? What differences are there in these postgraduation activities by institutional type, such as state-owned, state-related, private state-aided and private?

Methodology

Those graduated between December 1974 and August 1975 from all higher education degree programs in Pennsylvania were the target population of this study. Data collection instruments were sent in the early summer of 1975 to the appropriate contact person on each campus who had been previously certified by the institution's president to cooperate in this study. The information was collected from institutions rather than from individual graduates, as in 1974, and the survey items were reduced from 18 to six to lessen the workload for all concerned.

By the December 1975 due date, institutional contact officers, usually career services directors, from 117 institutions had returned to Harrisburg completed forms containing information on 36,026 graduates at all degree levels. These graduates represented 40 per cent of the 90,153 higher education graduates in Pennsylvania for the 1974-75 academic year, and 66 per cent of the 54,902 graduates of the institutions that cooperated in the study.

Eighty per cent of Pennsylvania's higher education institutions cooperated by supplying postgraduation information at one or more degree levels. The reason given by institutions, both large and small, for not cooperating in the study was a lack of time, money, personnel or priorities. However, that other institutions are finding the past results useful is shown by their current keen interest in acquiring and using this type of information.

The survey instrument was designed in the Division of Research, Pennsylvania Department of Education, to collect information to meet the objectives of the study,

i.e., to discover the rate, location and relatedness of employment and the proportion of graduates pursuing advanced degrees. The contact person at each institution was responsible for deciding whether graduates were employed in their fields of preparation.

The period of time allotted for collecting this information from the institutions and their graduates ranged from their graduation dates to as much as six months later, according to the follow-up procedures established at each institution. Thus, the findings reflect employment status relatively soon after graduation.

Questionnaire Response Pattern

Two sets of detailed summaries of graduates' response patterns by major discipline and institutional categories are provided for each degree level in the appendix. One set (Tables 17.0 and 17.2) gives the proportion of respondents on the basis of total number of graduates at cooperating institutions. The other set (Tables 17.1 and 17.3) gives the proportion of respondents based on the total number of graduates in all Pennsylvania institutions. Similar response data for associate degree graduates are found in Tables 17.4 and 17.5 in the appendix. The proportions shown are somewhat lower in the tables where all graduates in Pennsylvania were considered, due to nonparticipation in the study by some institutions.

A comparison of the overall response pattern data for baccalaureate degree graduates for 1974 and 1975 follows:

A Comparison of Responses Based on Graduates of Cooperating Baccalaureate Institutions

Year of Study	Number of Cooperating Baccalaureate Institutions	Number of Graduates at Cooperating Institutions	Number of Usable Returns	Per Cent
1974	86	54,228	25,176	46.4
1975	71	34,054	22,619	66.4

A Comparison of Responses Based on Graduates of All Baccalaureate Institutions

Year of Study	Number of All Baccalaureate Institutions	Number of Graduates At All Institutions	Number of Usable Returns	Per Cent
1974	102	57,275	25,176	44.0
1975	105	55,689	22,619	40.6

In the above comparisons of the sample populations, the slightly lower number of institutions cooperating in the 1975 study at the baccalaureate level reflects the new survey technique adopted in 1975; this technique required more clerical assistance at each cooperating institution, causing, perhaps, some decrease in returns, especially from the larger institutions.

Validity of the Sample

While no follow-up of nonrespondents was made this year to assess the adequacy of the sampling, this was done in two previous studies. In those studies no significant differences between respondents' and nonrespondents' postgraduation employment activities were found.

Types and Location of Tables

The chief results for this study are in the five basic "employment status" tables in the body of the text; supplementary employment status and degree field tables are in the appendix. The tables in the text are organized so that postgraduation data for all responding baccalaureate degree recipients appear in the first employment status table; data from all master's level graduates appear in the second employment status table, followed by similar tables for the doctoral, first professional and associate degree graduates.

Tables in the appendix supplement those in the text. For instance, the 18.0 series of employment status tables in the appendix breaks down the baccalaureate data not only by major discipline but also by such institutional categories as state-owned, state-related, state-aided and private. Similarly arranged series of employment status tables in the appendix supplement those in the text for the master's (19.0), doctor's (20.0) and associate degree recipients (21.0).

The data in all the tables mentioned above are given by total numbers and percentage of graduates for each major discipline. However, two final sets of tables (22.0 and 23.0) in the appendix give more detailed supplementary employment status results by the number of baccalaureate and associate graduates in each of the degree fields, which are subcategories of the major disciplines. These two sets of degree-field tables summarize the information in the form in which it was received, including the "all others" category. In most instances, the "all others" category represents the difference between the number of respondents and the total number of graduates. Since the respondents apparently often obtained the "all others" figure in this way, it was considered as not meaningful and was deleted in all tables other than the last two degree-field tables in the appendix.

Table 1 illustrates the basic table format in this report. It shows how 22,619 baccalaureate graduates in 23 major disciplines responded to six employment options confronting them upon graduation. These options were selected as crucial postgraduation employment indicators; the major disciplines are the widely used standard categories of the Higher Education General Information Survey (HEGIS) system.

Table 1 indicates that of the 22,619 baccalaureate graduates, 61.0 per cent were employed, 23.8 per cent not employed at the time of the survey and 15.2 per cent pursuing advanced degrees. These outcomes may be compared with the 1974 survey results, which showed 64.4 per cent of baccalaureate graduates were in full-time employment, 10.1 per cent employed part time, 15.1 per cent seeking employment and 10.2 pursuing advanced degrees. (The 1974 data were recalculated to conform to the 1975 research design by deleting the relatively low proportion of 1974 graduates in the categories of "military service" and "not seeking employment.")

Employment Status Means, Relatedness Means

As a way to facilitate comparison with the 1974 postbaccalaureate study, a weighted mean was used once again to rank the degree of graduates' employment as well as the degree to which their employment is related to their major discipline. This was done by assigning a weight of "3" to those in full employment, which is the total of the "employed in field prepared" and "employed in other field" columns of

Table 1

Employment Status by Major Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	143	62 (43.3)	31 (21.7)	14 (9.8)	5 (3.5)	16 (11.2)	15 (10.5)
Architecture and Environmental Design	63	20 (31.7)	13 (20.6)	4 (6.3)	2 (3.2)	15 (23.8)	9 (14.3)
Area Studies	30	3 (10.0)	1 (3.3)	2 (6.7)	5 (16.7)	13 (43.3)	6 (20.0)
Biological Sciences	952	189 (19.8)	70 (7.4)	71 (7.5)	44 (4.6)	395 (41.5)	183 (19.2)
Business and Management	2,836	1,325 (46.7)	396 (14.0)	236 (8.3)	53 (1.9)	222 (7.8)	602 (21.2)
Communications	267	80 (30.0)	49 (18.3)	70 (26.2)	16 (6.0)	16 (6.0)	36 (13.5)
Computer and Information Sciences	90	48 (53.3)	19 (21.1)	2 (2.2)	-	5 (5.6)	16 (17.8)
Education	8,809	3,408 (38.7)	941 (10.7)	1,093 (12.4)	163 (1.9)	544 (6.1)	2,660 (30.2)
Engineering	777	305 (39.3)	249 (32.0)	9 (1.2)	13 (1.7)	120 (15.4)	81 (10.4)
Fine and Applied Arts	732	175 (23.9)	101 (13.8)	98 (13.4)	37 (5.0)	114 (15.6)	207 (28.3)
Foreign Languages	379	61 (16.1)	33 (8.7)	77 (20.3)	32 (8.4)	95 (25.1)	81 (21.4)
Health Professions	859	474 (55.2)	131 (15.2)	20 (2.3)	4 (0.5)	123 (14.3)	107 (12.5)
Home Economics	181	75 (41.4)	22 (12.2)	19 (10.6)	11 (6.1)	20 (11.0)	34 (18.8)
Law	49	5 (10.2)	-	-	1 (2.0)	42 (85.7)	1 (2.0)
Letters	983	171 (17.4)	74 (7.5)	205 (20.9)	80 (8.1)	266 (27.1)	187 (19.0)
Library Science	101	36 (35.6)	17 (16.8)	19 (18.8)	1 (1.0)	7 (6.9)	21 (20.8)
Mathematics	486	157 (32.3)	60 (12.3)	56 (11.5)	28 (5.8)	105 (21.6)	80 (16.5)
Physical Sciences	547	103 (18.8)	67 (12.2)	35 (6.4)	22 (4.0)	266 (48.6)	54 (9.9)
Psychology	1,114	239 (21.5)	63 (5.7)	189 (17.0)	45 (4.0)	299 (26.8)	279 (25.0)
Public Affairs and Services	353	130 (36.8)	39 (11.0)	51 (14.4)	7 (2.0)	33 (9.3)	93 (26.3)
Social Sciences	2,416	409 (16.9)	153 (6.3)	488 (20.2)	215 (8.9)	595 (24.6)	556 (23.0)
Theology	195	46 (23.6)	42 (21.5)	16 (8.2)	9 (4.6)	77 (39.5)	5 (2.6)
Interdisciplinary Studies	257	51 (19.8)	11 (4.3)	48 (18.7)	16 (6.2)	58 (22.6)	73 (28.4)
GRAND TOTAL	22,619	7,572 (33.5)	2,582 (11.4)	2,822 (12.5)	811 (3.6)	3,446 (15.2)	5,386 (23.8)

the survey form. A weight of "1" was given to those in the "unemployed" column. The mean resulting from the use of these weights is called the employment status mean. Employment status means for 1974, appearing in Table 2, were recalculated to conform to the 1975 weighting procedure. The higher the mean the greater the degree of employment.

Table 2 has similar weighted means to indicate the degree to which graduates' jobs are related to their major fields of study. Here the graduates in the "employed in field prepared" column were rated "3" and those in the "employed in other field" were rated "1." The higher the mean the closer the job should be considered related to the graduates' major discipline; the lower the mean the more distant the relationship. The 1974 means in Table 1 were also recalculated to conform to the 1975 weighting procedure.

RESULTS

Employment Status for Bachelor's Degree Graduates

When the 1974 and 1975 employment status mean rankings are averaged, the eight highest ranking major disciplines with respect to degree of employment are theology, agriculture and natural sciences, engineering, communications, health professions, architecture, and computer and information sciences. Of these seven high-ranked major disciplines, three also ranked very high in job relatedness, the others moderately high. Positive and negative changes occurring between 1974 and 1975 in the employment and relatedness means for these disciplines are given as follows:

Baccalaureate Disciplines With High Ranking Employment Status	Direction and Per Cent of Change in Employment Status Means--1974 to 1975	Direction and Per Cent of Change in Relatedness Means 1974 through 1975
Agriculture & Natural Resources	0.0	0.0
Architecture & Environmental Design	1.9	1.1
Communications	7.5	-12.7
Computer & Information Sciences	-9.3	- 0.3
Engineering	-5.8	- 0.7
Health	-4.9	0.0
Theology	2.8	- 2.6

According to the figures above, between 1974 and 1975 the employment situation weakened slightly for baccalaureate graduates in computer and information sciences, engineering and health. Relatedness means held virtually constant over this period of time except for declines in job relatedness for graduates of communications.

Seven major disciplines with low-ranking employment status means for 1974 and 1975 were (1) social sciences, (2) education, (3) biological sciences, (4) fine and applied arts, (5) psychology, (6) area studies and (7) interdisciplinary studies. That these graduates also experienced difficulty in obtaining jobs related to these seven major disciplines probably indicates that their search for compatible employment continues. The percentages and directions of change for the employment status and relatedness means for these low-ranking major disciplines between 1974 and 1975 follow:

Table 2

A Comparison of Employment Status and Relatedness Means for Baccalaureate Graduates From All Categories of Institutions in Pennsylvania, 1974 and 1975

Major Disciplines	Employment Status Means 1974	Employment Status Means 1975	Per Cent Change in Employment Status Means	Ranks for Employment Status Means 1974	Ranks for Employment Status Means 1975	Relatedness Means 1974	Relatedness Means 1975	Per Cent Change in Relatedness Means	Ranks for Relatedness Means 1974	Ranks for Relatedness Means 1975
Agriculture & Natural Resources	2.76	2.76	0.0	6	2	2.66	2.66	0.0	7	6.5
Architecture and Environmental Design	2.57	2.62	1.9	12	7.5	2.72	2.69	- 1.1	6	5
Area Studies	2.54	2.29	- 9.8	16	22	2.08	1.72	-17.3	18	23
Biological Sciences	2.52	2.34	- 7.1	17.5	19	2.18	2.38	9.2	16	15
Business and Management	2.74	2.53	- 7.7	7	13	2.74	2.71	- 1.1	5	4
Communications	2.52	2.71	7.5	17.5	4.5	2.52	2.20	-12.7	13	17
Computer and Information Sciences	2.89	2.62	- 9.3	3	7.5	2.95	2.94	- 0.3	1	1
Education	2.70	2.35	-13.0	8	18	2.61	2.55	- 2.3	10	8.5
Engineering	2.92	2.75	- 5.8	2	3	2.94	2.92	- 0.7	2	2.5
Fine and Applied Arts	2.42	2.33	- 3.7	22	20	2.25	2.34	4.0	15	16
Foreign Languages	2.36	2.42	2.5	23	15	1.76	1.92	9.0	22	20.5
Health Professions	2.84	2.70	- 4.9	4	6	2.92	2.92	0.0	3	2.5
Home Economics	2.45	2.57	4.9	21	11	2.60	2.52	- 3.1	11	10
Law	3.00	2.71	- 9.7	1	4.5	1.80	2.66	47.8	21	6.5
Letters	2.51	2.47	- 1.6	19	14	1.84	1.92	4.3	20	20.5
Library Science	2.69	2.55	- 5.2	9	12	2.80	2.45	-12.5	4	13
Mathematics	2.64	2.58	- 2.3	10	10	2.59	2.44	- 5.8	12	14
Physical Sciences	2.63	2.61	- 0.8	11	9	2.63	2.49	- 5.3	8	11
Psychology	2.55	2.31	- 9.4	14.5	21	2.14	2.12	- 0.9	17	18
Public Affairs & Services	2.55	2.41	- 5.5	14.5	16	2.50	2.48	- 0.8	14	12
Social Sciences	2.47	2.38	- 3.6	20	17	1.96	1.88	- 4.1	19	22
Theology	2.83	2.91	2.8	5	1	2.62	2.55	- 2.6	9	8.5
Interdisciplinary Studies	2.56	2.26	-11.7	13	23	1.64	1.98	20.7	23	19

Baccalaureate Disciplines With Low Ranking Employment Status	Direction and Per Cent of Change in Employment Status Means--1974-1975	Direction and Per Cent of Change in Relatedness Means 1974-1975
Area Studies	- 9.8	-17.3
Biological Sciences	- 7.1	9.2
Education	-13.0	- 2.3
Fine and Applied Arts	- 3.7	4.0
Interdisciplinary Studies	-11.7	20.7
Psychology	- 9.4	- 0.9
Social Studies	- 3.6	- 4.1

The above list shows that the degree of employment declined between 1974 and 1975 in all seven of the low-ranking major disciplines. There were similar declines in job relatedness for graduates in four of the major disciplines; however, job relatedness improved for graduates in biological sciences, fine and applied arts, and interdisciplinary studies.

Considerable analysis might well be made to identify the variables which hinder or help baccalaureate graduates make successful transitions from their education in these seven disciplines to worthy employment in occupations related to these fields of study. Unfortunately, the data now available do not permit such an analysis.

Table 3 compares the proportions of baccalaureate graduates who were employed outside Pennsylvania in 1974 and 1975. The seven "high employment" disciplines mentioned above also appear in Table 3 among the disciplines with moderate to high proportions of graduates employed in other states. However, Table 3 indicates reductions in the proportion of graduates employed outside Pennsylvania between 1974 and 1975 for the disciplines of agriculture, architecture, health and computer and information sciences. Disciplines showing increasing proportions of graduates employed outside Pennsylvania over this period were communications, engineering and theology. These out-migration rates should enable manpower studies to define the supply to Pennsylvania more accurately. The supply of teachers to Pennsylvania in 1975, for example, was 16,508, of whom about 14,000 remained in the state.

Employment Status for Master's Degree Graduates

The employment status of 2,823 master's degree graduates, classed under 21 major disciplines, appears in Table 4, which shows 85.3 per cent employed, 6.6 unemployed and 8.1 pursuing advanced degrees. Comparable baccalaureate employment status results (see Table 1) are 61.0 per cent employed, 23.8 per cent unemployed and 15.2 per cent seeking advanced degrees. Employment status of master's degree graduates is significantly better than that of baccalaureate degree graduates.

The reader should use care in generalizing from Table 5, where employment status means and relatedness means are ranked, due to the relatively small number of graduates in some major disciplines. This is especially true of the seven highest-ranked major disciplines according to employment status, since there were very few such graduates represented in Table 5. Six of seven of these apparently high-ranking disciplines are accompanied by relatedness means which rank, by contrast, very low, suggesting a possible struggle for employment by graduates in these disciplines.

Graduates in physical sciences and mathematics are seen in Table 5 as having rather low employment status means coupled with high relatedness means. This can be taken as an indication that these graduates tend to hold out for employment related to their fields of study. Graduates of psychology and fine and applied arts

Table 3

Percentage of Out-Migration of Employed Bachelor's Degree Graduates According to Major Discipline

Major Discipline	Per Cent Employed Outside Pennsylvania 1974	1975	Per Cent of Change for Those Employed Outside Pennsylvania
Law	-	16.7	-
Education	19.3	19.7	2.1
Public Affairs and Services	19.5	20.3	4.1
Interdisciplinary Studies	22.6	21.4	- 5.3
Home Economics	22.7	26.0	14.5
Communications	22.8	30.2	32.5
Business and Management	24.1	22.4	- 7.1
Library Science	24.9	24.7	- 0.8
Psychology	27.1	20.1	-25.8
Biological Sciences	28.3	30.5	7.8
Health Professions	29.4	21.5	-26.9
Social Sciences	29.6	29.1	- 1.7
Mathematics	31.6	29.2	- 7.6
Letters	31.9	29.1	- 8.8
Fine and Applied Arts	34.1	33.6	- 1.5
Foreign Languages	34.5	32.0	- 7.2
Computer and Information Sciences	37.0	27.5	-25.7
Engineering	39.5	45.5	15.2
Physical Sciences	39.7	39.2	- 1.3
Area Studies	40.0	54.5	36.3
Architecture & Environmental Design	41.9	38.5	- 8.1
Agriculture & Natural Resources	42.4	32.1	-24.3
Theology	43.6	45.1	3.4

Table 4

Employment Status by Major Discipline for Master's Degree Recipients for All Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	1	-	-	-	-	1 (100.0)	-
Area Studies	3	-	1 (33.3)	-	1 (33.3)	1 (33.3)	-
Biological Sciences	45	21 (46.7)	4 (8.9)	5 (11.1)	-	11 (24.4)	4 (8.9)
Business and Management	288	139 (48.3)	96 (33.3)	11 (3.8)	7 (2.4)	12 (4.2)	23 (8.0)
Communications	38	25 (65.8)	6 (15.8)	1 (2.6)	-	3 (7.9)	3 (7.9)
Computer and Information Sciences	8	3 (37.5)	3 (37.5)	1 (12.5)	-	1 (12.5)	-
Education	1,856	1,254 (67.6)	213 (11.5)	170 (9.1)	27 (1.5)	77 (4.1)	115 (6.2)
Engineering	90	26 (28.9)	27 (30.0)	-	-	28 (31.1)	9 (10.0)
Fine and Applied Arts	54	23 (42.6)	11 (20.3)	4 (7.4)	3 (5.6)	5 (9.3)	8 (14.8)
Foreign Languages	9	7 (77.8)	-	1 (11.1)	1 (11.1)	-	-
Health Professions	49	21 (42.9)	19 (38.8)	1 (2.0)	-	3 (6.1)	5 (10.2)
Home Economics	-	-	-	-	-	-	-
Law	1	1 (100.0)	-	-	-	-	-
Letters	76	36 (47.4)	7 (9.2)	9 (11.8)	4 (5.3)	18 (23.7)	2 (2.6)
Library Science	22	16 (72.7)	3 (13.6)	3 (13.6)	-	-	-
Mathematics	30	10 (33.3)	3 (10.0)	-	-	14 (46.7)	3 (10.0)
Physical Sciences	50	15 (30.0)	9 (18.0)	-	1 (2.0)	21 (42.0)	4 (8.0)
Psychology	71	22 (31.0)	2 (2.8)	11 (15.5)	5 (7.0)	24 (33.8)	7 (9.9)
Public Affairs and Services	69	22 (31.9)	35 (50.7)	5 (7.2)	2 (2.9)	2 (2.9)	3 (4.3)
Social Sciences	118	60 (50.8)	12 (10.2)	26 (22.0)	5 (4.2)	11 (9.3)	4 (3.4)
Theology	10	4 (40.0)	3 (30.0)	1 (10.0)	-	2 (20.0)	-
Interdisciplinary Studies	5	3 (60.0)	1 (20.0)	1 (20.0)	-	-	-
GRAND TOTAL	2,893	1,708 (59.0)	455 (15.7)	250 (8.6)	56 (1.9)	234 (8.1)	190 (6.6)

Table 5

Employment Status Means and Relatedness Means by Major Discipline for Master's Degree Graduates in Pennsylvania, 1975

Major Discipline	Employment Status Mean	Relatedness Status Mean	Employment Status Rank	Relatedness Rank
Area Studies	3.00	2.00	4	20
Computer and Information Sciences	3.00	2.71	4	12
Interdisciplinary Studies	3.00	2.60	4	15
Law	3.00	3.00	4	2
Library Science	3.00	2.73	4	11
Theology	3.00	2.75	4	10
Foreign Languages	3.00	2.56	4	16
Letters	2.93	2.54	8.5	17
Social Sciences	2.93	2.40	8.5	18
Public Affairs	2.90	2.78	10	8
Education	2.87	2.76	11	9
Communications	2.83	2.94	12.5	5
Business & Management	2.83	2.86	12.5	7
Health Professions	2.78	2.95	14	4
Biological Sciences	2.76	2.67	15	13
Physical Sciences	2.72	2.92	16	6
Engineering	2.71	3.00	17	2
Psychology	2.70	2.20	18	19
Fine and Applied Arts	2.67	2.66	19	14
Mathematics	2.63	3.00	20	2

Table 6

Percentage of Out-Migration of Employed Master's Degree Graduates According to Major Discipline

Major Discipline	Per Cent Employed Outside Pa.	Rank (Low to High)
Law	00.0	1
Foreign Language	11.1	2
Biological Science	13.3	3
Library Science	13.6	4
Education	14.4	5
Social Sciences	16.5	6
Psychology	17.5	7
Communications	18.8	8
Letters	19.6	9
Interdisciplinary Studies	20.0	10
Mathematics	23.1	11
Fine & Applied Arts	34.1	12
Theology	37.5	13
Physical Sciences	40.0	14
Business & Management	40.7	15
Computer and Information Sciences	42.9	16
Health Professions	46.3	17
Engineering	50.9	18
Public Affairs and Services	57.8	19
Area Studies	100.0	20

are doubly disadvantaged, since they have a moderately low degree of employment and low job relatedness.

Table 6 lists in rank order the proportion of responding master's degree graduates employed outside Pennsylvania in 1975. When this table is related to the previous one ranking employment status, there appears to be no discernible relationship between the two tables.

Employment Status for Doctor's Degree Recipients

The employment status outcomes given in Table 7 for 256 doctoral degree recipients for 12 major disciplines show 92.2 per cent of the respondents were employed, 5.9 per cent were unemployed and 5.0 per cent were pursuing advanced degrees during the 1975 survey. Comparable figures for master's degree recipients were 85.3 per cent employed, 6.6 per cent unemployed and 8.1 per cent pursuing advanced degrees. This is another indication of the rising employment status and decreasing pursuit of advanced degrees for graduates at each succeedingly higher degree level.

For the major disciplines in Table 8, there is a rather high correspondence between the employment status means and the relatedness means. Thus, at the doctoral level this relationship is even more evident than at the master's level. (Again, don't over-generalize from limited data from only 256 doctoral graduates.)

In Table 9, the percentage of out-migration for employment beyond Pennsylvania seems high compared with the percentages for baccalaureate and master's degree graduates. Part of this "migration" may simply be the return to out-of-state locations by those who studied in Pennsylvania, but part may also be doctoral graduates responding to a national market. Their increased education apparently gives them greater job mobility and employability.

Employment Status for First-Professional Degree Graduates

The employment status of the 2,576 first-professional degree recipients included under Table 10 is that 94.3 per cent were reported employed, 3.8 per cent unemployed and 1.9 per cent pursuing advanced or specialized study. Comparable figures for doctoral degree graduates were 92.2 per cent employed, 5.9 per cent unemployed and 5.0 per cent in pursuit of advanced degrees. These comparisons illustrate the trend that for graduates at each succeeding level above the baccalaureate degree to have corresponding increases in the proportions of those employed and decreases in those seeking employment and pursuing advanced degrees.

Table 11 also illustrates the general trend that rising degree levels of graduates are accompanied by rising employment status means in association with high relatedness means.

Finally, in Table 12 there is a similar pattern of more first-professional degree graduates being employed outside Pennsylvania than baccalaureate or master's degree recipients. In fact, the remarkable number of such professional personnel leaving Pennsylvania for work in other states may raise the question of whether Pennsylvania is profitting enough from its educational offerings. In other words, is Pennsylvania experiencing a brain drain to states with greater prospects of employment?

Table 7

Employment Status by Major Discipline for Doctoral Degree Recipients for All Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	-	-	-	-	-	-	-
Area Studies	-	-	-	-	-	-	-
Biological Sciences	7	4 (57.1)	1 (14.3)	-	-	2 (28.6)	-
Business and Management	14	3 (21.4)	11 (78.6)	-	-	-	-
Communications	-	-	-	-	-	-	-
Computer and Information Sciences	7	2 (28.6)	5 (71.4)	-	-	-	-
Education	105	53 (50.4)	36 (34.3)	7 (6.7)	7 (6.7)	-	2 (1.9)
Engineering	33	11 (33.3)	16 (48.5)	-	-	-	6 (18.2)
Fine and Applied Arts	-	-	-	-	-	-	-
Foreign Languages	1	-	1 (100.0)	-	-	-	-
Health Professions	-	-	-	-	-	-	-
Home Economics	-	-	-	-	-	-	-
Law	-	-	-	-	-	-	-
Letters	19	13 (68.4)	3 (15.8)	2 (10.5)	-	1 (5.2)	-
Library Science	-	-	-	-	-	-	-
Mathematics	9	2 (22.2)	5 (55.6)	-	-	-	2 (22.2)
Physical Sciences	27	6 (22.2)	15 (55.6)	1 (3.7)	1 (3.7)	-	4 (14.8)
Psychology	23	11 (47.8)	8 (34.8)	1 (4.3)	- -	2 (8.7)	1 (4.3)
Public Affairs and Services	6	4 (66.7)	2 (33.3)	- -	- -	- -	- -
Social Sciences	5	2 (40.0)	3 (60.0)	-	-	-	-
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	-	-	-	-	-	-	-
GRAND TOTAL	256	111 (43.4)	106 (41.4)	11 (4.3)	8 (3.1)	5 (2.0)	15 (5.9)

Table 8

Employment Status Means and Relatedness Means by Major Discipline for Doctor's Degree Graduates in Pennsylvania, 1975

Major Discipline	Employment Status Mean	Relatedness Status Mean	Employment Status Rank	Relatedness Rank
Biological Sciences	3.00	3.00	4	4.5
Business and Management	3.00	3.00	4	4.5
Computer & Information Sciences	3.00	3.00	4	4.5
Foreign Languages	3.00	3.00	4	4.5
Letters	3.00	2.78	4	11
Public Affairs & Services	3.00	3.00	4	4.5
Social Sciences	3.00	3.00	4	4.5
Education	2.96	2.73	8	12
Psychology	2.90	2.90	9	9
Physical Sciences	2.70	2.83	10	10
Engineering	2.64	3.00	11	4.5
Mathematics	2.56	3.00	12	4.5

Table 9

Percentage of Out-Migration of Employed Doctoral Graduates According to Major Discipline

Major Discipline	Per Cent Employed Outside Pa.	Rank (Low to High)
Letters	16.7	1
Biological Science	20.0	2
Public Affairs and Services	33.3	3
Psychology	40.0	4
Education	41.7	5
Engineering	59.3	6
Social Sciences	60.0	7
Physical Sciences	69.6	8
Computer and Information Sciences	71.4	9.5
Mathematics	71.4	9.5
Business and Management	78.6	11
Foreign Languages	100.0	12

Table 10

Employment Status by Major Discipline for First-Professional Degree Recipients for All Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployment
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Dentistry,(D.D.S. or D.M.D. degree)	216	80 (37.0)	104 (48.1)	2 (0.9)	1 (0.5)	22 (10.2)	7 (3.2)
Medicine, (M.D. degree)	962	456 (47.4)	493 (51.2)	-	-	12 (1.2)	1 (0.1)
Optometry (O.D. degree)	80	46 (57.5)	30 (37.5)	-	1 (1.2)	2 (2.5)	1 (1.2)
Osteopathic medicine (D.O. degree)	155	63 (40.6)	92 (59.4)	-	-	-	-
Podiatry (Pod.D. or D.P.) or podiatric medicine (D.P.M.) including chiropody	50	23 (46.0)	18 (36.0)	-	9 (18.0)	-	-
Law, general (LL.B. or J.D. degree)	1,113	675 (60.6)	237 (21.3)	80 (7.2)	20 (1.8)	13 (1.2)	88 (7.9)
GRAND TOTAL	2,576	1,343 (52.1)	974 (37.8)	82 (3.2)	31 (1.2)	49 (1.9)	97 (3.8)

Table 11

Employment Status Means and Relatedness Means
by Major Discipline for the First-Professional Degree Graduates

Major Discipline	Employment Status	Relatedness Mean	Employment Rank	Relatedness Rank
Osteopathy	3.00	3.00	1.5	1.5
Podiatry	3.00	2.64	1.5	6
Medicine (M.D.)	3.00	3.00	1.5	1.5
Optometry	2.97	2.97	4	2.5
Dentistry	2.93	2.97	5	2.5
Law	2.84	2.80	6	5.0

Table 12

Percentage of Out-Migration of Employed First-
Professional Degree Graduates According to Major Discipline

Major Discipline	Per Cent Employed Outside Pa.	Rank (Low to High)
Law	25.4	1
Optometry	40.3	2
Medicine (M.D.)	51.9	3
Podiatry	54.4	4
Dentistry	56.1	5
Osteopathy	59.4	6

Employment Status for Associate Degree Graduates

Table 13 makes it possible for one to ascertain clearly the employment status of the 7,682 recipients of the two-year associate degrees. For instance, 61.8 per cent of these graduates are reported as employed, 8.2 per cent unemployed and 30.0 per cent pursuing advanced degrees. Comparable figures for baccalaureate graduates are 61.0 per cent employed, 23.8 per cent unemployed and 15.2 per cent pursuing advanced degrees.

It can be seen in Table 14 that the employment status mean is high for arts and sciences graduates at the associate degree level, but, as might be expected, the job relateness means for graduates in this academic area rank the lowest. This inverse relationship suggests a commendable drive toward employment on the part of these graduates, who apparently overcome any reluctance to take "unrelated" work. This table has a contrasting feature: a high ranking employment status mean and a high relatedness mean in the case of graduates in the health services and the paramedical technologies.

It would seem from Table 14 figures that graduates with associate degrees in data processing technologies may be confidently waiting jobs related to their field of study, since the table indicates a moderately low employment status mean and a somewhat higher relatedness mean for these disciplines.

Table 13

Employment Status by Major Discipline for Associate Degree Recipients for All Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployment
Data Processing Technologies	308	194 (63.0)	11 (3.6)	26 (8.4)	-	28 (9.1)	49 (15.9)
Health Services and Para-Medical Technologies	1,325	1,006 (75.9)	26 (2.0)	33 (2.5)	1 (0.07)	155 (11.7)	104 (7.8)
Mechanical and Engineering Technologies	1,371	655 (47.8)	210 (15.3)	140 (10.2)	21 (1.5)	175 (12.8)	170 (12.4)
Natural Science Technologies	114	62 (54.4)	1 (0.9)	8 (7.0)	1 (0.9)	35 (30.7)	7 (6.1)
Business and Commerce Technologies	2,109	1,325 (62.8)	134 (6.4)	116 (5.5)	9 (0.4)	332 (15.7)	193 (9.2)
Public Service-Related Technologies	874	347 (39.7)	13 (1.5)	66 (7.5)	12 (1.4)	347 (39.7)	89 (10.2)
Arts and Science Transfers	1,581	143 (9.0)	1 (0.1)	162 (10.2)	28 (1.8)	1,232 (77.9)	15 (0.9)
GRAND TOTAL	7,682	3,732 (48.6)	396 (5.1)	551 (7.2)	72 (0.9)	2,304 (30.0)	627 (8.2)

Table 14

Employment Status Means and Relatedness Means by Major Discipline for Associate Degree Graduates in Pennsylvania, 1975

Major Discipline	Employment Status Mean	Relatedness Status Mean	Employment Status Rank	Relatedness Rank
Arts and Science Transfers	2.91	1.86	1	7
Health Services and Para-Medical Technologies	2.82	2.94	2.5	1
Natural Science Technologies	2.82	2.75	2.5	4
Business and Commerce Technologies	2.78	2.84	4	2
Mechanical and Engineering Technologies	2.72	2.69	5	5
Public Service Related Technologies	2.66	2.64	6	6
Data Processing Technologies	2.65	2.77	7	3

Table 14a

Percentage of Out-Migration of Employed Associate Degree Graduates According to Major Discipline

Major Discipline	Per Cent Employed Outside Pa.	Rank (Low to High)
Health Services and Para-medical Technologies	2.5	1
Natural Science Technologies	2.8	2
Data Processing Technologies	4.8	3
Public Service Related Technologies	5.7	4
Arts and Science Transfers	8.7	5
Business and Commerce Technologies	9.0	6
Mechanical and Engineering Technologies	22.5	7

Table 14a shows that associate degree graduates are less likely than other degree-level graduates to leave Pennsylvania for employment. Associate degree graduates in mechanical and engineering technologies were exceptions to this rule.

Classification of Major Disciplines by Relative Standing

Table 15 attempts to summarize the data from the preceding tables in terms of whether a given discipline ranked "high" or "low" in relation to all the disciplines and with regard to three major variables (1) the employment status mean, (2) the employment relatedness mean and (3) the percentage of graduates continuing their education on an advanced level.

For the employment status and relatedness means, "high" is construed as at or above the median rank for the major disciplines represented for a given degree level, such as associate, bachelor's, master's, doctor's or first professional. "Low" was construed to mean those falling below the median ranking.

It should be carefully noted, therefore, that "low" in Table 16 does not necessarily indicate a large amount of unemployment or a great difficulty in obtaining employment related to the discipline in which the degree was taken. It means, rather, that the graduates in this "low" discipline were relatively less successful in obtaining employment, or employment related to their degree field, than the graduates of those disciplines designated as "high."

In the case of the percentage of graduates moving on to advanced studies (graduate school, post-doctoral work, etc.), the disciplines at or above the median percentage were designated as having a high tendency to go on for advanced studies, and those designated as "low," or below the median, were seen as being relatively less likely to do so, although in a given discipline a "low" rating may reflect substantial advanced study.

In the case of the doctoral or first professional, any amount of post-doctoral work was categorized as "high," since the typical pattern is not of advanced study (other than medical internship, etc., which was not included here). Actually, only a few disciplines had any amount of such studies at the post-doctoral level.

The purpose of Table 15 is to alert the reader to possible patterns or trends that may exist, or be developing, with regard to a given discipline when it is compared to other disciplines. Some caution is required in reading this table, since it must be remembered that, for example, first-professional degree graduates in dentistry and law may not have taken their licensing or bar examinations within the time frame of this study, and the supposed low employment status of these disciplines may be, therefore, somewhat spurious.

Only a careful examination of the detailed data from the preceding tables and a knowledge of the disciplines in question will permit one to make a useful assessment of the patterns implicit in the data shown in Table 15.

Table 15 is composed of eight sections, each of which is based on a distinct (or different) combination of the three variables emphasized in preceding tables: employment status means, employment relatedness means and the proportion of graduates of each major discipline pursuing advanced study. For example, in Section I are listed the "high related employment or advanced study" major disciplines (for each degree level) whose graduates ranked high in the three variables mentioned. To be more specific, graduates of the major disciplines listed in Section I enjoyed relatively high levels of employment in jobs which related to their major discipline.

Table 15

Classification of Major Disciplines by Relative Standing (Ranking) in Employment Status, Employment Relatedness and Proportion of Those Continuing Graduate or Post-Doctoral Studies[a]

	Associate Degree Level	Bachelor's Degree Level	Master's Degree Level	Doctor's Degree Level	First-Professional Degree Level
I.	High-Related Employment or Advanced Studies				
	Natural Science Tech. Business & Commerce Tech.	Architecture Law Physical Sciences Theology	Theology	Biological Sciences	Medicine (M.D.) Optometry
II.	High-Related Employment--Terminal Degree				
	Health Services and Paramedical Tech.	Agriculture & Natural Resources Computer & Information Sciences Engineering Health Professions Home Economics	Education Library Sciences Public Affairs	Business & Management Computer & Information Sciences Foreign Languages Public Affairs Social Sciences	Osteopathic Medicine
III.	High, but Unrelated Employment or Advanced Studies				
	Arts and Sciences	Mathematics	Area Studies Computer & Information Sciences Letters Social Sciences	Letters	None
IV.	High, but Unrelated Employment--Terminal Degree				
	None	Communications Library Science	Foreign Languages Interdisciplinary Studies	Education	Podiatry
V.	Low, but Highly Related Employment or Advanced Studies				
	None	None	Engineering Mathematics Physical Sciences	None	Dentistry
VI.	Low, but Highly Related Employment--Terminal Degree				
	Data Processing Technologies	Business & Management Education Public Affairs and Services	Business & Management Communications Health Professions	Engineering Mathematics	None
VII.	Low and Unrelated Employment or Advanced Studies				
	Public Services Related Technologies	Area Studies Biological Sciences Foreign Languages Letters Psychology Social Sciences Interdisciplinary Studies	Architecture Biological Sciences Fine & Applied Arts Psychology	Psychology	Law
VIII.	Low and Unrelated Employment--Terminal Degree				
	Mechanical & Engineering Technologies	Fine & Applied Arts	None	Physical Sciences	None

[a]These findings are relative and represent patterns or trends only. For example, the graduates in the physical sciences found employment less often than others at the doctoral level, but had a high level of employment, nevertheless. The categories of high or low are based on the median rank. Any mean at or above the median was considered as high, except in the case of doctoral degree recipients going on to further graduate work. Here any amount of post-doctoral advanced study was categorized as "high."

Also, a relatively high percentage of the graduates in these major disciplines went on to graduate school.

In contrast, the graduates of the major disciplines listed in Section VI ("low, but highly related employment--terminal degree") when compared with others, have lower levels of employment, but tend to take jobs related to their major discipline. Relatively few graduates in these major disciplines in Section VI continue to pursue advanced degrees, making this degree, in essence, terminal.

The reader may want to look at a discipline of interest, determine its pattern and then examine the preceding tables to obtain a picture of how favorable the pattern is in terms of the basis data. Two questions might be asked: Does the pattern suggest a trend? Or is the pattern due to the nature of the discipline?

Table 16 indicates employment status by degree level and institutional sector.

DISCUSSION

Baccalaureate graduates of the private state-aided instutions enjoyed higher levels of employment than graduates of any other institutional category in Pennsylvania in 1975. Graduates of the state-related institutions had the next highest employment level, followed by graduates of the private and state-owned institutions. The relatively low level of employment (or high unemployment level) for graduates of the state-owned institutions is due to the rapidly declining employment market for new teachers and to surveying too early--placement activity peaks later each year, say placement officers at state-owned institutions.

The employment situation for graduates at other degree levels ranges from "satisfactory" for associate degree graduates to "good" for those with master's, doctor's and first-professional degrees. This tends to refute the idea that large numbers of holders of advanced degrees are unemployed or underemployed. In fact, the percentage of unemployment declines at each higher degree level above the baccalaureate.

Graduates of the following major disciplines possessed the highest levels of employment: theology, agriculture and natural resources, engineering, communications, law, health, architecture, and computer and information sciences.

Graduates of major disciplines ranking low in employment are social studies, education, biological sciences, fine and applied arts, psychology, area studies and interdisciplinary studies. Counselors in high schools and colleges should inform students about fields with either a weak employment demand or an oversupply of graduates.

Generally corroborating the findings of this study are two news releases from the College Placement Council, Bethlehem, Pennsylvania--one in December 1975, the other in June 1976. These releases describe a slump in employment for graduates of the 1974-75 academic year. The council's forecast for 1974-75 was for a four per cent decrease in college graduate hirings over the 1973-74 level. "But the situation worsened as the recruiting season progressed and employers wound up hiring 18 per cent fewer college graduates than in 1973-74....Last June the class of 1975 hit the skimpiest job market in more than a decade," the report said.

However, for the coming year (1975-76), the council expects hiring to be up, especially in the categories of engineering, accounting, business administration,

computer science and sales. Employment for teachers will continue to be a problem, according to the council's forecast. There will be somewhat better prospects, though, for employment of teachers of mathematics, music, science and special education. Hiring for women and blacks is also predicted to increase.

Table 16

Employment Status by Degree Level and Institutional Sector

Degree Levels and Institutional Sectors	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Bachelor's Degree							
State-Owned	9,888	3,471	917	1,360	176	716	3,247
		(35.1)	(9.3)	(13.8)	(1.8)	(7.2)	(32.8)
State-Related	1,412	563	87	373	55	208	126
		(39.9)	(6.2)	(26.4)	(3.9)	(14.7)	(8.9)
State-Aided	334	174	76	33	6	32	13
		(52.1)	(22.7)	(9.9)	(1.8)	(9.6)	(3.9)
Private	10,985	3,363	1,502	1,056	574	2,490	2,000
		(30.6)	(13.7)	(9.6)	(5.2)	(22.7)	(18.2)
Subtotal	22,619	7,572	2,582	2,822	811	3,446	5,386
		(33.5)	(11.4)	(12.5)	(3.6)	(15.2)	(23.8)
Master's Degree							
State-Owned	1,179	891	138	36	10	24	80
		(75.6)	(11.7)	(3.1)	(0.8)	(2.0)	(6.8)
State-Related	630	386	85	70	15	49	25
		(61.3)	(13.5)	(11.1)	(2.4)	(7.8)	(3.9)
State-Aided	42	15	9			14	4
		(35.7)	(21.4)	-	-	(33.3)	(9.5)
Private	1,042	416	223	144	31	147	81
		(39.9)	(21.4)	(13.8)	(3.0)	(14.1)	(7.8)
Subtotal	2,893	1,708	455	250	56	234	190
		(59.0)	(15.7)	(8.6)	(1.9)	(8.1)	(6.6)
Doctor's Degree							
State-Owned	1	1	-	-	-	-	-
		(100.0)					
State-Related	134	64	46	8	7	5	4
		(47.8)	(34.3)	(6.0)	(5.2)	(3.7)	(3.0)
State-Aided	7	6	1				
		(85.7)	(14.3)	-	-	-	-
Private	114	40	59	3	1	-	11
		(35.1)	(51.8)	(2.6)	(0.9)		(9.6)
Subtotal	256	111	106	11	8	5	15
		(43.4)	(41.4)	(4.3)	(3.1)	(2.0)	(5.9)
First Professional Degree							
State-Related	1,035	549	344	44	17	31	50
		(53.0)	(33.2)	(4.3)	(1.6)	(3.0)	(4.8)
State-Aided	1,189	555	588	2	11	17	16
		(46.7)	(49.5)	(10.2)	(0.9)	(1.4)	(1.3)
Private	352	239	42	36	3	1	31
		(67.9)	(11.9)	(10.2)	(0.9)	(0.2)	(8.8)
Subtotal	2,576	1,343	974	82	31	49	97
		(52.1)	(37.8)	(3.2)	(1.2)	(1.9)	(3.8)
Associate Degree							
Community Colleges	5,131	2,200	68	388	48	2,076	351
		(42.9)	(1.3)	(7.6)	(0.9)	(40.5)	(6.8)
Proprietary Inst.	1,993	1,217	308	132	17	82	237
		(61.1)	(15.5)	(6.6)	(0.9)	(4.1)	(11.9)
Four-Year Colleges & Universities	558	315	20	31	7	146	39
		(56.5)	(3.6)	(5.5)	(1.3)	(26.2)	(7.0)
Subtotal	7,682	3,732	396	551	72	2,304	627
		(48.6)	(5.1)	(7.2)	(0.9)	(30.0)	(8.2)
GRAND TOTAL	36,026	14,466	4,513	3,716	978	6,038	6,315
		(40.2)	(12.5)	(10.3)	(2.7)	(16.8)	(17.5)

By using data from Table 16 and from the studies completed for bachelor's degree graduates in 1972 and 1974, one might make the following comparisons by institutional category:

Institutional Category	Percentage of Bachelor's Graduates Employed		
	1972	1974	1975
State-Owned	69.9	80.3	59.9
State-Related	51.0	75.7	76.3
State-Aided	66.3	63.9	86.5
Private	55.6	68.6	59.1
Total	60.5	74.7	61.0

Institutional Category	Percentage of Bachelor's Graduates Not Employed		
	1972	1974	1975
State-Owned	23.8	15.3	32.8
State-Related	37.2	13.8	8.9
State-Aided	13.9	13.9	3.9
Private	18.1	16.1	18.2
Total	23.3	15.1	23.8

Institutional Category	Percentage of Bachelor's Graduates Pursuing Advanced Degrees		
	1972	1974	1975
State-Owned	6.2	4.3	7.2
State-Related	11.7	10.6	14.7
State-Aided	19.7	22.2	9.6
Private	26.3	15.3	22.7
Total	16.1	10.2	15.2

Institutional Category	Of Those Employed, Percentage Outside Pa,		
	1972	1974	1975
State-Owned	18.1	18.0	18.4
State-Related	28.8	23.8	13.2
State-Aided	38.7	39.3	28.4
Private	36.9	34.0	32.0
Total	28.0	25.2	24.6

Institutional Category	Of Those Employed, Percentage Employed in Field Prepared		
	1972	1974	1975
State-Owned	84.3	65.7	74.1
State-Related	89.1	70.7	60.3
State-Aided	89.1	75.7	86.5
Private	57.6	63.9	74.9
Total	75.5	66.9	73.6

From Table 16 data, the following comparisons by degree level and institutional category can be made:

Institutional Category	Percentage of Graduates Employed			
	Bachelor's	Master's	Doctor's	First Prof.
State-Owned	59.9	91.2	100.0	-
State-Related	76.3	88.3	93.3	92.2
State-Aided	86.5	57.1	100.0	97.2
Private	59.1	78.1	90.4	90.9
Total	61.0	85.3	92.1	94.3

Institutional Category	Percentage of Graduates Not Employed			
	Bachelor's	Master's	Doctor's	First Prof.
State-Owned	32.8	6.8	-	-
State-Related	8.9	3.9	3.0	4.8
State-Aided	3.9	9.5	-	1.3
Private	18.2	7.8	9.6	8.8
Total	23.8	6.6	5.9	3.8

Institutional Category	Percentage of Graduates Pursuing Advanced Degrees			
	Bachelor's	Master's	Doctor's	First Prof.
State-Owned	7.2	2.0	-	-
State-Related	14.7	7.8	3.7	3.0
State-Aided	9.6	33.3	-	1.4
Private	22.7	14.1	-	0.2
Total	15.2	8.1	2.0	1.9

Institutional Category	Of Those Employed, Percentage Outside Pa.			
	Bachelor's	Master's	Doctor's	First Prof.
State-Owned	18.4	13.8	-	-
State-Related	13.2	18.0	42.4	37.8
State-Aided	28.4	37.5	14.3	51.8
Private	32.0	31.3	58.3	14.1
Total	24.6	20.7	48.3	41.3

Institutional Category	Of Those Employed, Percentage in Field Prepared			
	Bachelor's	Master's	Doctor's	First Prof.
State-Owned	74.1	55.7	100.0	-
State-Related	60.3	84.7	88.0	93.6
State-Aided	86.5	100.0	100.0	98.9
Private	74.9	78.5	96.1	87.8
Total	73.6	87.6	91.9	95.3

The following comparisons related to associate degree recipients of the several institutional categories can be made from Table 16 data:

Institutional Category	Percentage of Graduates			Of Those Employed	
	Employed	Not Employed	Pursuing Advanced Degree	Percentage Outside Pa.	Percentage Employed in Field Prepared
Community Colleges	52.7	6.8	40.5	4.3	44.2
Proprietary Inst.	84.0	11.9	4.1	19.4	76.5
Four-Year Colleges & Universities	66.8	7.0	26.2	7.2	60.0
Total	61.8	8.2	30.0	6.1	53.7

APPENDICES

The tables in the appendix supplement those in the text. The 17.0 table series gives the survey response data for graduates of each major discipline degree level and type of institution. Table series 18.0 through 23.3 give employment status data for graduates of each major discipline, degree level and institutional type. Employment status information is also given by degree field for associate and baccalaureate degree graduates.

Table 17.0

Number of Returns Received from Four Degree Levels of Graduates Compared With the Number of Graduates for Institutions Cooperating in the Study by Major Discipline, 1975[a]

Major Discipline	All Degrees		Bachelor's		Master's		Doctoral		First Prof.	
	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns
Agriculture and Natural Resources	155	143 (92.2)	155	143 (92.2)	-	-	-	-	-	-
Architecture and Environmental Design	45	64 (100.0)	39	63 (100.0)	6	1 (16.7)	-	-	-	-
Area Studies	58	33 (56.9)	53	30 (56.6)	5	3 (60.0)	-	-	-	-
Biological Sciences	1,882	1,004 (53.3)	1,659	952 (57.4)	166	45 (27.1)	57	7 (12.3)	-	-
Business and Management	4,886	3,138 (64.2)	4,315	2,836 (65.7)	561	288 (51.3)	10	14 (100.0)	-	-
Communications	580	305 (52.6)	478	267 (55.9)	102	38 (37.3)	-	-	-	-
Computer and Information Sciences	132	105 (79.5)	99	90 (90.9)	26	8 (30.8)	7	7 (100.0)	-	-
Education	13,812	10,770 (78.0)	9,535	8,809 (92.4)	4,124	1,856 (45.0)	153	105 (66.6)	-	-
Engineering	1,107	900 (81.3)	914	777 (85.0)	149	90 (60.4)	44	33 (75.0)	-	-
Fine and Applied Arts	1,525	786 (51.5)	1,359	732 (53.9)	160	54 (33.8)	6	-	-	-
Foreign Language	929	389 (41.9)	879	379 (43.1)	49	9 (18.4)	1	1 (100.0)	-	-
Health Professions	3,344	2,371 (70.9)	1,442	859 (59.6)	120	49 (40.8)	1	-	1,781	1,463 (82.1)
Home Economics	287	181 (63.1)	287	181 (63.1)	-	-	-	-	-	-
Law	1,008	1,163 (100.0)	8	49 (100.0)	-	1 (100.0)	-	-	1,000	1,113 (100.0)
Letters	2,612	1,078 (41.3)	2,187	983 (44.9)	383	76 (19.8)	42	19 (45.2)	-	-
Library Science	287	123 (42.9)	226	101 (44.7)	61	22 (36.1)	-	-	-	-
Mathematics	1,075	525 (48.8)	956	486 (50.8)	102	30 (29.4)	17	9 (52.9)	-	-
Physical Sciences	1,215	624 (51.4)	953	547 (57.4)	204	50 (24.5)	58	27 (46.6)	-	-
Psychology	1,935	1,208 (62.4)	1,783	1,114 (62.5)	115	71 (61.7)	37	23 (62.2)	-	-
Public Affairs and Services	819	328 (40.0)	671	253 (37.7)	133	69 (51.9)	15	6 (40.0)	-	-
Social Sciences	5,435	2,539 (46.7)	5,008	2,416 (48.2)	400	118 (29.5)	27	5 (18.5)		
Theology	446	185 (41.5)	347	175 (50.4)	99	10 (10.1)	-	-	-	-
Interdisciplinary Studies	729	262 (35.9)	701	257 (36.7)	22	5 (22.7)	6	-	-	-
GRAND TOTAL	44,303	28,344 (64.0)	34,054	22,619 (66.4)	6,987	2,893 (41.4)	481	256 (53.2)	2,781	2,576 (92.6)

[a]In several instances where the "number of returns" exceeds the "number of graduates," this is due to the slightly different data collecting periods (and methods) used by the two sources of data comprising these tables. For instance, the "number of returns" represents graduates between December, 1974 and August, 1975 who responded to the survey. The "number of graduates" data were collected for those graduating between July 1, 1974 and June 31, 1975, as published in: Degrees and Other Formal Awards Conferred by Pennsylvania Institutions of Higher Education, 1974-75, Division of Educational Statistics, Bureau of Information Systems, Pennsylvania Department of Education, Harrisburg, 1976.

Table 17.1

Number of Returns Received from Four-Degree Levels of Graduates Compared With the Number of Graduates for All Institutions by Major Discipline, 1975

Major Discipline	All Degrees		Bachelor's		Master's		Doctoral		First Prof.	
	No. Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns
Agriculture and Natural Resources	629	143 (22.7)	574	143 (24.9)	45	-	10	-	-	-
Architecture and Environmental Design	424	64 (15.1)	186	63 (33.9)	232	1 (0.4)	6	-	-	-
Area Studies	230	33 (14.3)	173	30 (17.3)	46	3 (6.5)	11	-	-	-
Biological Sciences	3,712	1,004 (27.0)	3,235	952 (29.4)	304	45 (14.8)	171	7 (4.0)	-	-
Business and Management	9,485	3,138 (33.1)	7,633	2,836 (37.2)	1,795	288 (16.0)	57	14 (24.6)	-	-
Communications	933	305 (32.7)	784	267 (34.1)	143	38 (26.6)	6	-	-	-
Computer and Information Sciences	372	105 (28.2)	262	90 (34.4)	87	8 (9.2)	23	7 (30.4)	-	-
Education	18,547	10,770 (58.1)	11,537	8,809 (76.4)	6,540	1,856 (28.4)	470	105 (22.3)	-	-
Engineering	3,708	900 (24.3)	2,782	777 (24.1)	762	90 (11.8)	164	33 (21.2)	-	-
Fine and Applied Arts	2,138	786 (36.8)	1,814	732 (40.4)	299	54 (18.1)	25	-	-	-
Foreign Languages	1,555	389 (25.0)	1,305	379 (29.0)	218	9 (4.1)	32	1 (3.1)	-	-
Health Profession	5,072	2,371 (46.7)	2,824	859 (30.4)	444	49 (11.0)	23	-	1,781	1,463 (82.1)
Home Economics	862	181 (21.0)	796	181 (22.7)	50	-	16	-	-	-
Law	1,236	1,163 (94.1)	17	49 (100.0)	7	1 (14.3)	-	-	1,212	1,113 (91.8)
Letters	4,342	1,078 (24.8)	3,534	983 (27.8)	670	76 (11.3)	138	19 (13.8)	-	-
Library Science	726	123 (16.9)	226	101 (44.7)	490	22 (4.5)	10	-	-	-
Mathematics	1,743	525 (30.1)	1,481	486 (32.8)	232	30 (12.9)	30	9 (30.0)	-	-
Physical Sciences	2,379	624 (26.2)	1,751	547 (31.2)	410	50 (12.2)	218	27 (12.4)	-	-
Psychology	3,321	1,208 (36.4)	3,015	1,114 (36.5)	210	71 (33.8)	96	23 (24.0)	-	-
Public Affairs and Services	2,390	328 (13.7)	1,610	353 (15.7)	723	69 (9.5)	57	6 (10.5)	-	-
Social Sciences	9,512	2,539 (26.7)	8,455	2,416 (28.6)	884	118 (13.3)	172	5 (2.9)	-	-
Theology	921	185 (20.1)	409	195 (42.8)	152	10 (6.6)	26	-	334	-
Interdisciplinary Studies	1,379	262 (19.0)	1,286	257 (20.0)	84	5 (6.0)	9	-	-	-
GRAND TOTAL	75,616	28,344 (37.5)	55,689	22,619 (40.6)	14,827	2,893 (19.5)	1,773	256 (14.4)	3,327	2,576 (77.4)

Table 17.2

Number of Returns Received from Graduates at Four Degree Levels as Compared With the Number of Graduates for Cooperating Institutions Within Institutional Categories in Pennsylvania, 1975

Institutional Categories	All Degrees		Bachelor's		Master's		Doctoral		First Prof.	
	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns
State-Owned	17,379	11,068 (63.7)	14,204	9,888 (69.6)	3,171	1,179 (37.2)	4	1 (25.0)	-	-
State-Related	6,116	3,210 (52.5)	3,386	1,412 (41.7)	1,368	630 (46.1)	251	134 (53.4)	1,111	1,034 (93.1)
State-Aided	2,573	1,573 (61.1)	1,023	334 (32.6)	50	42 (84.0)	20	7 (35.0)	1,480	1,190 (80.4)
Private Colleges & Universities	18,235	12,493 (68.5)	15,441	10,985 (71.1)	2,398	1,042 (43.5)	206	114 (55.3)	190	352 (100.0)
GRAND TOTAL	44,303	28,344 (64.0)	34,054	22,619 (66.4)	6,937	2,893 (41.4)	481	256 (53.2)	2,781	2,576 (92.6)

Table 17.3

Number of Returns Received from Graduates at Four Degree Levels as Compared With the Number of Graduates for All Institutions Within Institutional Cateogries in Pennsylvania, 1975

Institutional Categories	All Degrees		Bachelor's		Master's		Doctoral		First Prof.	
	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns
State-Owned	17,783	11,068 (62.2)	14,204	9,888 (69.6)	3,575	1,179 (33.0)	4	1 (25.0)	-	-
State-Related	22,072	3,210 (14.5)	14,966	1,412 (9.4)	4,918	630 (12.8)	1,077	134 (12.4)	1,111	1,034 (93.1)
State-Aided	8,307	1,573 (18.9)	4,300	334 (7.8)	2,120	42 (2.0)	407	7 (1.7)	1,480	1,190 (80.4)
Private Colleges, Univ. & Theological Sem.	27,454	12,493 (45.5)	22,219	10,985 (49.4)	4,214	1,042 (24.7)	285	114 (40.0)	736	352 (47.8)
GRAND TOTAL	75,616	28,344 (37.5)	55,689	22,619 (40.6)	14,827	2,893 (19.5)	1,773	256 (14.4)	3,327	2,576 (77.4)

Table 17.4

Number of Returns Received for Associate Degree Graduates Compared With the Number of Graduates for Cooperating Institutions and All Institutions by Major Discipline, 1975

Major Discipline	Number of Associate Degrees Awarded by Cooperating Institutions	Total Number of Associate Degrees Awarded in Pa.	Number of Returns	Per Cent of Returns by Graduates of Cooperating Institutions	Per Cent of Returns of Graduates of All Insts.
Data Processing Technologies	472	585	308	65.3	52.6
Health Services & Paramedical Technologies	1,523	1,754	1,325	87.0	75.5
Mechanical & Engineering Technologies	1,808	2,637	1,371	75.8	52.0
Natural Science Technologies	168	396	114	67.9	28.8
Business and Commerce Technologies	3,006	4,152	2,109	70.2	50.8
Public Service Related Technologies	1,026	1,207	874	85.9	72.4
Arts and Science Transfers	2,596	3,811	1,581	60.9	41.5
GRAND TOTAL	10,599	14,542	7,682	72.5	52.8

Table 17.5

Number of Returns Received for Associate Degree Graduates Compared With the Number of Graduates for Cooperating Institutions and All Institutions by Institutional Category, 1975

Institutional Category	Number of Associate Degrees Awarded by Cooperating Institutions	Total Number of Associate Degrees Awarded in Pa.	Number of Returns	Per Cent of Returns by Graduates of Cooperating Institutions	Per Cent of Returns of Graduates of All Insts.
Community Colleges	6,954	7,554	5,131	73.7	67.9
Colleges and Universities	1,311	2,977	558	42.6	18.7
Private Jr. Colleges	-	1,189	-	-	-
Proprietary Instiutions	2,334	2,822	1,993	85.4	70.6
GRAND TOTAL	10,599	14,542	7,682	72.5	52.8

Table 18.0

Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed In Field Prepared: In Pa.	Employed In Field Prepared: Outside Pa.	Employed In Other Field: In Pa.	Employed In Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed
Agriculture and Natural Resources	21	4 (19.0)	2 (9.5)	5 (23.8)	-	2 (9.5)	8 (38.1)
Architecture and Environmental Design	20	6 (30.0)	4 (20.0)	3 (15.0)	-	2 (10.0)	5 (25.0)
Area Studies	-	-	-	-	-	-	-
Biological Sciences	150	42 (28.0)	14 (9.3)	21 (14.0)	-	32 (21.3)	41 (27.3)
Business and Management	638	304 (47.6)	68 (10.6)	51 (8.0)	8 (1.3)	28 (4.4)	179 (28.1)
Communications	32	10 (31.2)	6 (18.8)	5 (15.6)	-	2 (6.3)	9 (28.1)
Computer and Information Sciences	38	20 (52.6)	7 (18.4)	1 (2.6)	-	1 (2.6)	9 (23.7)
Education	6,632	2,461 (37.1)	648 (9.8)	880 (13.3)	67 (1.0)	347 (5.2)	2,229 (33.6)
Engineering	-	-	-	-	-	-	-
Fine and Applied Arts	138	21 (15.2)	3 (2.2)	11 (8.0)	4 (2.9)	5 (3.6)	94 (68.1)
Foreign Languages	93	8 (8.6)	3 (3.2)	28 (30.1)	6 (6.5)	17 (18.3)	31 (33.3)
Health Professions	124	89 (71.8)	5 (4.0)	12 (9.7)	1 (0.8)	4 (3.2)	13 (10.5)
Home Economics	103	45 (43.7)	15 (14.6)	13 (12.6)	2 (1.9)	9 (8.8)	19 (18.4)
Law	-	-	-	-	-	-	-
Letters	190	55 (28.9)	4 (2.1)	40 (21.0)	6 (3.2)	28 (14.7)	57 (30.0)
Library Science	95	34 (35.8)	17 (17.9)	19 (20.0)	-	5 (5.3)	20 (21.0)
Mathematics	189	49 (25.9)	24 (12.7)	29 (15.3)	15 (7.9)	21 (11.1)	51 (27.0)
Physical Sciences	160	43 (26.9)	23 (14.3)	16 (10.0)	6 (3.7)	46 (28.8)	26 (16.3)
Psychology	329	70 (21.3)	9 (2.7)	60 (18.2)	12 (3.6)	51 (15.5)	127 (38.6)
Public Affairs and Services	143	43 (30.1)	16 (11.2)	18 (12.6)	2 (1.4)	4 (2.8)	60 (41.9)
Social Sciences	702	147 (20.9)	44 (6 3)	143 (20.4)	42 (6.0)	99 (14.1)	227 (32.3)
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	91	21 (23.1)	5 (5.5)	5 (5.5)	5 (5.5)	13 (14.3)	42 (46.1)
GRAND TOTAL	9,888	3,472 (35.1)	917 (9.3)	1,360 (13.8)	176 (1.8)	716 (7.2)	3,247 (32.8)

Table 18.1

Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	-	-	-	-	-	-	-
Area Studies	4	2 (50.0)	-	-	-	2 (50.0)	-
Biological Sciences	27	6 (22.2)	-	7 (25.9)	2 (7.4)	10 (37.0)	2 (7.4)
Business and Management	224	125 (55.8)	23 (10.3)	39 (17.4)	8 (3.6)	11 (4.9)	18 (8.0)
Communications	89	27 (30.3)	15 (16.9)	28 (31.5)	5 (5.6)	4 (4.5)	10 (11.2)
Computer and Information Sciences	11	9 (81.8)	-	1 (9.1)	-	1 (9.1)	-
Education	380	234 (61.6)	24 (6.3)	72 (18.9)	8 (2.1)	11 (2.9)	31 (8.2)
Engineering	39	22 (56.4)	10 (25.6)	3 (7.7)	-	3 (7.7)	1 (2.6)
Fine and Applied Arts	70	25 (35.7)	3 (4.3)	15 (21.4)	5 (7.1)	14 (20.0)	8 (11.4)
Foreign Languages	20	2 (10.0)	1 (5.0)	9 (45.0)	1 (5.0)	6 (30.0)	1 (5.0)
Health Professions	4	4 (100.0)	-	-	-	-	-
Home Economics	-	-	-	-	-	-	-
Law	4	2 (50.0)	-	-	-	2 (50.0)	-
Letters	67	8 (11.9)	1 (1.5)	36 (53.7)	3 (4.5)	6 (9.0)	13 (19.4)
Library Science	-	-	-	-	-	-	-
Mathematics	13	5 (38.5)	1 (7.7)	5 (38.4)	-	1 (7.7)	1 (7.7)
Physical Sciences	19	7 (36.8)	2 (10.5)	1 (5.3)	-	9 (47.4)	-
Psychology	104	30 (28.8)	2 (1.9)	35 (33.7)	5 (4.8)	26 (25.0)	6 (5.8)
Public Affairs and Services	57	22 (38.6)	1 (1.7)	14 (24.6)	-	12 (21.1)	8 (14.0)
Social Sciences	204	28 (13.7)	2 (1.0)	78 (38.2)	14 (6.9)	60 (29.4)	22 (10.8)
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	76	5 (6.6)	2 (2.6)	30 (39.5)	4 (5.3)	30 (39.5)	5 (6.6)
GRAND TOTAL	1,412	563 (39.9)	87 (6.2)	373 (26.4)	55 (3.9)	208 (14.7)	126 (8.9)

Table 18.2

Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Aided Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	114	57 (50.0)	29 (25.4)	9 (7.9)	2 (1.8)	12 (10.5)	5 (4.4)
Architecture and Environmental Design	7	3 (42.9)	3 (42.9)	-	-	-	1 (14.2)
Area Studies	-	-	-	-	-	-	-
Biological Sciences	30	9 (30.0)	5 (16.7)	4 (13.3)	3 (10.0)	9 (30.0)	-
Business and Management	25	17 (68.0)	1 (4.0)	7 (28.0)	-	-	-
Communications	-	-	-	-	-	-	-
Computer and Information Sciences	-	-	-	-	-	-	-
Education	8	3 (37.5)	1 (12.5)	1 (12.5)	-	2 (25.0)	1 (12.5)
Engineering	-	-	-	-	-	-	-
Fine and Applied Arts	82	36 (43.9)	22 (26.8)	11 (13.4)	1 (1.2)	6 (7.3)	6 (7.3)
Foreign Languages	-	-	-	-	-	-	-
Health Professions	65	48 (73.8)	15 (23.0)	-	-	2 (3.1)	-
Home Economics	-	-	-	-	-	-	-
Law	-	-	-	-	-	-	-
Letters	-	-	-	-	-	-	-
Library Science	-	-	-	-	-	-	-
Mathematics	-	-	-	-	-	-	-
Physical Sciences	3	1 (33.3)	-	1 (33.3)	-	1 (33.3)	-
Psychology	-	-	-	-	-	-	-
Public Affairs and Services	-	-	-	-	-	-	-
Social Sciences	-	-	-	-	-	-	-
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	-	-	-	-	-	-	-
GRAND TOTAL	334	174 (52.1)	76 (22.7)	33 (9.9)	6 (1.8)	32 (9.6)	13 (3.9)

Table 18.3

Employment Status by Major Discipline for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	8	1 (12.5)	-	-	3 (37.5)	2 (25.0)	2 (25.0)
Architecture and Environmental Design	36	11 (30.5)	6 (16.7)	1 (2.8)	2 (5.6)	13 (36.1)	3 (8.3)
Area Studies	26	1 (3.8)	1 (3.8)	2 (7.7)	5 (19.2)	11 (42.3)	6 (23.1)
Biological Sciences	745	132 (17.7)	51 (6.8)	39 (5.2)	39 (5.2)	344 (46.2)	140 (18.8)
Business and Management	1,949	879 (45.1)	304 (15.6)	139 (7.1)	39 (2.0)	183 (9.4)	405 (20.8)
Communications	146	43 (29.5)	28 (19.2)	37 (25.3)	11 (7.5)	10 (6.8)	17 (11.6)
Computer and Information Sciences	41	19 (46.3)	12 (29.3)	-	-	3 (7.3)	7 (17.1)
Education	1,789	710 (39.7)	268 (15.0)	140 (7.8)	88 (4.9)	184 (10.3)	399 (22.3)
Engineering	738	283 (38.3)	239 (32.4)	6 (0.8)	13 (1.8)	117 (15.9)	80 (10.8)
Fine and Applied Arts	442	93 (21.0)	73 (16.5)	61 (13.8)	27 (6.1)	89 (20.1)	99 (22.4)
Foreign Languages	266	51 (19.2)	29 (10.9)	40 (15.0)	25 (9.4)	72 (27.1)	49 (18.4)
Health Professions	666	333 (50.0)	111 (16.6)	8 (1.2)	3 (0.5)	117 (17.6)	94 (14.1)
Home Economics	78	30 (38.5)	7 (9.0)	6 (7.7)	9 (11.5)	11 (14.1)	15 (19.2)
Law	45	3 (6.7)	-	-	1 (2.2)	40 (88.9)	1 (2.2)
Letters	726	108 (14.9)	69 (9.5)	129 (17.8)	71 (9.8)	232 (31.9)	117 (16.1)
Library Science	6	2 (33.3)	-	-	1 (16.7)	2 (33.3)	1 (16.7)
Mathematics	284	103 (36.3)	35 (12.3)	22 (7.7)	13 (4.6)	83 (29.2)	28 (9.9)
Physical Sciences	363	52 (14.2)	42 (11.5)	17 (4.7)	16 (4.4)	210 (57.5)	28 (7.7)
Psychology	681	139 (20.4)	52 (7.6)	94 (13.8)	28 (4.1)	222 (32.6)	146 (21.4)
Public Affairs and Services	153	65 (42.5)	22 (14.4)	19 (12.4)	5 (3.3)	17 (11.1)	25 (16.3)
Social Sciences	1,510	234 (15.5)	107 (7.1)	267 (17.7)	159 (10.5)	436 (28.9)	307 (20.3)
Theology	195	46 (23.6)	42 (21.5)	16 (8.2)	9 (4.6)	77 (39.5)	5 (2.6)
Interdisciplinary Studies	90	25 (27.8)	4 (4.4)	13 (14.4)	7 (7.8)	15 (16.7)	26 (28.9)
GRAND TOTAL	10,985	3,363 (30.6)	1,502 (13.7)	1,056 (9.6)	574 (5.2)	2,490 (22.7)	2,000 (18.2)

Table 19.0

Employment Status by Major Discipline for Master's Degree Recipients for State-Owned Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	-	-	-	-	-	-	-
Area Studies	-	-	-	-	-	-	-
Biological Sciences	16	9 (56.2)	2 (12.5)	2 (12.5)	-	2 (12.5)	1 (6.3)
Business and Management	31	15 (48.4)	4 (12.9)	-	1 (3.2)	2 (6.5)	9 (29.0)
Communications	31	21 (67.7)	6 (19.4)	-	-	1 (3.2)	3 (9.7)
Computer and Information Sciences	-	-	-	-	-	-	-
Education	981	776 (79.1)	100 (10.2)	27 (2.8)	9 (0.9)	10 (1.0)	59 (6.0)
Engineering	-	-	-	-	-	-	-
Fine and Applied Arts	3	3 (100.0)	-	-	-	-	-
Foreign Languages	2	2 (100.0)	-	-	-	-	-
Health Professions	-	-	-	-	-	-	-
Home Economics	-	-	-	-	-	-	-
Law	-	-	-	-	-	-	-
Letters	14	11 (78.6)	2 (14.3)	-	-	1 (7.1)	-
Library Science	15	12 (80.0)	-	3 (20.0)	-	-	-
Mathematics	5	4 (80.0)	1 (20.0)	-	-	-	-
Physical Sciences	10	7 (70.0)	-	-	-	2 (20.0)	1 (10.0)
Psychology	5	1 (20.0)	-	-	-	-	4 (80.0)
Public Affairs and Services	25	3 (12.0)	19 (76.0)	-	-	2 (8.0)	1 (4.0)
Social Sciences	39	26 (66.7)	4 (10.2)	3 (7.7)	-	4 (10.3)	2 (5.1)
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	2	1 (50.0)	-	1 (50.0)	-	-	-
GRAND TOTAL	1,179	891 (75.6)	138 (11.7)	36 (3.1)	10 (0.8)	24 (2.0)	80 (6.8)

Table 19.1

Employment Status by Major Discipline for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	-	-	-	-	-	-	-
Area Studies	-	-	-	-	-	-	-
Biological Sciences	11	6 (54.5)	1 (9.1)	1 (9.1)	-	3 (27.3)	-
Business and Management	43	22 (51.2)	11 (25.6)	6 (14.0)	2 (4.6)	2 (4.6)	-
Communications	5	2 (40.0)	-	1 (20.0)	-	2 (40.0)	-
Computer and Information Sciences	3	1 (33.3)	-	1 (33.3)	-	1 (33.3)	-
Education	361	261 (72.3)	37 (10.2)	33 (9.1)	5 (1.4)	16 (4.4)	9 (2.5)
Engineering	-	-	-	-	-	-	-
Fine and Applied Arts	30	10 (33.3)	8 (26.6)	2 (6.7)	2 (6.7)	-	8 (26.7)
Foreign Languages	5	5 (100.0)	-	-	-	-	-
Health Professions	20	9 (45.0)	8 (40.0)	1 (5.0)	-	-	2 (10.0)
Home Economics	-	-	-	-	-	-	-
Law	1	1 (100.0)	-	-	-	-	-
Letters	39	19 (48.7)	2 (5.1)	6 (15.4)	2 (5.1)	8 (20.5)	2 (5.1)
Library Science	-	-	-	-	-	-	-
Mathematics	5	3 (60.0)	-	-	-	2 (40.0)	-
Physical Sciences	9	3 (33.3)	4 (44.4)	-	-	2 (22.2)	-
Psychology	24	10 (41.6)	-	6 (25.0)	1 (4.2)	6 (25.0)	1 (4.2)
Public Affairs and Services	34	19 (55.9)	6 (17.6)	5 (14.7)	2 (5.9)	-	2 (5.9)
Social Sciences	37	13 (35.1)	7 (18.9)	8 (21.6)	1 (2.7)	7 (18.9)	1 (2.7)
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	3	2 (66.7)	1 (33.3)	-	-	-	-
GRAND TOTAL	630	386 (61.3)	85 (13.5)	70 (11.1)	15 (2.4)	49 (7.8)	25 (3.9)

Table 19.2

Employment Status by Major Discipline for Master's Degree Recipients for State-Aided Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	-	-	-	-	-	-	-
Area Studies	-	-	-	-	-	-	-
Biological Sciences	10	4 (40.0)	1 (10.0)	-	-	4 (40.0)	1 (10.0)
Business and Management	-	-	-	-	-	-	-
Communications	-	-	-	-	-	-	-
Computer and Information Sciences	-	-	-	-	-	-	-
Education	2	1 (50.0)	-	-	-	1 (50.0)	-
Engineering	-	-	-	-	-	-	-
Fine and Applied Arts	-	-	-	-	-	-	-
Foreign Languages	-	-	-	-	-	-	-
Health Professions	15	5 (33.3)	6 (40.0)	-	-	2 (13.3)	2 (13.3)
Home Economics	-	-	-	-	-	-	-
Law	-	-	-	-	-	-	-
Letters	-	-	-	-	-	-	-
Library Science	-	-	-	-	-	-	-
Mathematics	-	-	-	-	-	-	-
Physical Sciences	-	-	-	-	-	-	-
Psychology	15	5 (33.3)	2 (13.3)	-	-	7 (46.7)	1 (6.7)
Public Affairs and Services	-	-	-	-	-	-	-
Social Sciences	-	-	-	-	-	-	-
Theology	-	-	-	-	-	-	-
Interdisciplinary Studies	-	-	-	-	-	-	-
GRAND TOTAL	42	15 (35.7)	9 (21.4)	-	-	14 (33.3)	4 (9.5)

Table 19.3

Employment Status by Major Discipline for Master's Degree Recipients for Private Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Agriculture and Natural Resources	-	-	-	-	-	-	-
Architecture and Environmental Design	1	-	-	-	-	1 (100.0)	-
Area Studies	3	-	1 (33.3)	-	1 (33.3)	1 (33.3)	-
Biological Sciences	8	2 (25.0)	-	2 (25.0)	-	2 (25.0)	2 (25.0)
Business and Management	214	102 (47.7)	81 (37.9)	5 (2.3)	4 (1.9)	8 (3.7)	14 (6.5)
Communications	2	2 (100.0)	-	-	-	-	-
Computer and Information Sciences	5	2 (40.0)	3 (60.0)	-	-	-	-
Education	512	216 (42.2)	76 (14.8)	110 (21.5)	13 (2.5)	50 (9.8)	47 (9.2)
Engineering	90	26 (28.9)	27 (30.0)	-	-	28 (31.1)	9 (10.0)
Fine and Applied Arts	21	10 (47.6)	3 (14.3)	2 (9.5)	1 (4.8)	5 (23.8)	-
Foreign Languages	2	-	-	1 (50.0)	1 (50.0)	-	-
Health Professions	14	7 (50.0)	5 (35.7)	-	-	1 (7.1)	1 (7.1)
Home Economics	-	-	-	-	-	-	-
Law	-	-	-	-	-	-	-
Letters	23	6 (26.1)	3 (13.0)	3 (13.0)	2 (8.7)	9 (39.1)	-
Library Science	7	4 (57.1)	3 (42.9)	-	-	-	-
Mathematics	20	3 (15.0)	2 (10.0)	-	-	12 (60.0)	3 (15.0)
Physical Sciences	31	5 (16.1)	5 (16.1)	-	1 (3.2)	17 (54.8)	3 (9.7)
Psychology	27	6 (22.2)	-	5 (18.5)	4 (14.8)	11 (40.7)	1 (3.7)
Public Affairs and Services	10	-	10 (100.0)	-	-	-	-
Social Sciences	42	21 (50.0)	1 (2.4)	15 (35.7)	4 (9.5)	-	1 (2.4)
Theology	10	4 (40.0)	3 (30.0)	1 (10.0)	-	2 (20.0)	-
Interdisciplinary Studies	-	-	-	-	-	-	-
GRAND TOTAL	1,042	416 (39.9)	223 (21.4)	144 (13.8)	31 (3.0)	147 (14.1)	81 (7.8)

Table 20.0

Employment Status by Major Discipline and Institutional Sector for Doctoral Degree Recipients in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed
STATE-OWNED							
Education	1	1 (100.0)	-	-	-	-	-
Subtotal	1	1 (100.0)	-	-	-	-	-
STATE-RELATED							
Biological Sciences	5	2 (40.0)	1 (20.0)	-	-	2 (40.0)	-
Education	87	43 (49.4)	30 (34.5)	7 (8.0)	6 (6.9)	-	1 (1.1)
Foreign Languages	1	-	1 (100.0)	-	-	-	-
Letters	14	9 (64.3)	3 (21.4	1 (7.1)	-	1 (7.1)	-
Mathematics	2	-	2 (100.0)	-	-	-	-
Physical Sciences	9	2 (22.2)	4 (44.4)	-	1 (11.1)	-	2 (22.2)
Psychology	9	4 (44.4)	2 (22.2)	-	-	2 (22.2)	1 (11.1)
Public Affairs and Services	2	2 (100.0)	-	-	-	-	-
Social Sciences	5	2 (40.0)	3 (60.0)	-	-	-	-
Subtotal	134	64 (47.8)	46 (34.3)	8 (6.0)	7 (5.2)	5 (3.7)	4 (3.0)
STATE-AIDED							
Biological Sciences	2	2 (100.0)	-	-	-	-	-
Psychology	5	4 (80.0)	1 (20.0)	-	-	-	-
Subtotal	7	6 (85.7)	1 (14.3)	-	-	-	-
PRIVATE							
Business and Management	14	3 (21.4)	11 (78.6)	-	-	-	-
Computer and Information Sciences	7	2 (28.6)	5 (71.4)	-	-	-	-
Education	17	9 (52.9)	6 (35.3)	-	1 (5.9)	-	1 (5.9)
Engineering	33	11 (33.3)	16 (48.5)	-	-	-	6 (18.2)
Letters	5	4 (80.0)	-	1 (20.0)	-	-	-
Mathematics	7	2 (28.6)	3 (42.8)	-	-	-	2 (28.6)
Physical Sciences	18	4 (22.2)	11 (61.1)	1 (5.6)	-	-	2 (11.1)
Psychology	9	3 (33.3)	5 (55.6)	1 (11.1)	-	-	-
Public Affairs and Services	6	2 (50.0)	2 (50.0)	-	-	-	-
Subtotal	114	40 (35.1)	59 (51.8)	3 (2.6)	1 (0.9)	-	11 (9.6)

Table 21.0

Employment Status by Major Discipline for Associate Degree Recipients for Community Colleges in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployment
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Data Processing Technologies	134	81 (60.4)	-	16 (11.9)	-	22 (16.4)	15 (11.2)
Health Services and Para-Medical Technologies	1,117	849 (76.0)	19 (1.7)	33 (3.0)	1 (0.8)	116 (10.4)	99 (8.8)
Mechanical and Engineering Technologies	509	276 (54.2)	14 (2.8)	53 (10.4)	4 (0.1)	114 (22.4)	48 (9.4)
Natural Science Technologies	86	43 (50.0)	1 (1.2)	4 (4.7)	1 (1.2)	31 (36.0)	6 (6.9)
Business and Commerce Technologies	951	508 (53.4)	21 (2.2)	71 (7.5)	8 (0.8)	259 (27.2)	84 (8.8)
Public Service-Related Technologies	802	301 (37.5)	13 (1.6)	55 (6.9)	10 (1.2)	338 (42.1)	85 (10.6)
Arts and Science Transfers	1,532	142 (9.3)	-	156 (10.2)	24 (1.6)	1,196 (78.0)	14 (0.9)
GRAND TOTAL	5,131	2,200 (42.9)	68 (1.3)	388 (7.6)	48 (0.9)	2,076 (40.5)	351 (6.8)

Table 21.1

Employment Status by Major Discipline for Associate Degree Recipients for Proprietary Institutions in Pennsylvania, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployment
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Data Processing Technologies	172	112 (65.1)	11 (6.4)	10 (5.8)	-	5 (2.9)	34 (19.8)
Health Services and Para-Medical Technologies	53	51 (96.2)	1 (1.9)	-	-	1 (1.9)	-
Mechanical and Engineering Technologies	793	365 (46.0)	193 (24.3)	82 (10.3)	17 (2.1)	20 (2.5)	116 (14.6)
Natural Science Technologies	-	-	-	-	-	-	-
Business and Commerce Technologies	950	667 (70.2)	103 (10.8)	40 (4.2)	-	56 (5.9)	84 (8.8)
Public Service-Related Technologies	25	22 (88.0)	-	-	-	-	3 (13.0)
Arts and Science Transfers	-	-	-	-	-	-	-
GRAND TOTAI	1,993	1,217 (61.1)	308 (15.5)	132 (6.6)	17 (0.9)	82 (4.1)	237 (11.9)

Table 21.2

Employment Status by Major Discipline for Associate Degree Recipients for Four-Year Colleges and Universities, 1975

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployment
		In Pa.	Outside Pa.	In Pa.	Outside Pa.		
Data Processing Technologies	2	1 (50.0)	-	-	-	1 (50.0)	-
Health Services and Para-Medical Technologies	155	106 (68.4)	6 (3.9)	-	-	38 (24.5)	5 (3.2)
Mechanical and Engineering Technologies	69	14 (20.3)	3 (4.3)	5 (7.3)	-	41 (59.4)	6 (8.7)
Natural Science Technologies	28	19 (67.9)	-	4 (14.3)	-	4 (14.3)	1 (3.5)
Business and Commerce Technologies	208	150 (72.1)	10 (4.8)	5 (2.4)	1 (0.5)	17 (8.2)	25 (12.0)
Public Service-Related Technologies	47	24 (51.1)	-	11 (23.4)	2 (4.3)	9 (19.1)	1 (2.1)
Arts and Science Transfers	49	1 (2.0)	1 (2.0)	6 (12.2)	4 (8.2)	36 (73.5)	1 (2.0)
GRAND TOTAL	558	315 (56.4)	20 (3.6)	31 (5.5)	7 (1.3)	146 (26.2)	39 (7.0)

Table 22.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1975

HEGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
AGRICULTURE AND NATURAL RESOURCES Total	163	62	31	14	5	16	15	20
Agriculture, general	1	-	-	-	1	-	-	-
Agronomy (field crops, and crop management)	24	15	1	-	2	3	-	3
Animal science (husbandry)	26	8	4	2	-	4	1	7
Dairy science (husbandry)	16	6	5	-	-	2	2	1
Horticulture (fruit and vegetable production)	21	8	6	1	-	1	1	4
Ornamental horticulture (floriculture, nursery sci.)	36	18	9	4	-	2	1	2
Food science and technology	11	3	4	2	-	-	-	2
Natural resources management	27	4	2	5	1	4	10	1
Range management	1	-	-	-	1	-	-	-
ARCHITECTURE AND ENVIRONMENTAL DESIGN Total	92	20	13	4	2	15	9	29
Environmental design, general	23	6	5	3	-	1	4	4
Architecture	37	10	6	-	2	10	2	7
Interior design	4	1	-	1	-	1	1	-
City, community, and regional planning	16	3	1	-	-	2	1	9
Other (Environmental studies)	12	-	1	-	-	1	1	9
AREA STUDIES Total	37	3	1	2	5	13	6	7
Asian studies, general	1	-	-	-	-	1	-	-
East Asian studies	4	-	-	-	1	-	3	-
Russian and Slavic studies	8	-	-	1	-	5	2	-
American studies	23	2	1	1	4	7	1	7
Other (French area)	1	1	-	-	-	-	-	-
BIOLOGICAL SCIENCE Total	1,241	189	70	71	44	395	183	289
Biology, general	1,206	182	69	70	44	379	179	283
Botany, general	1	-	1	-	-	-	-	-
Bacteriology	3	-	-	-	-	1	1	1
Zoology, general	2	-	-	-	-	2	-	-
Physiology, human and animal	1	-	-	-	-	1	-	-
Microbiology	1	-	-	-	-	-	-	1
Anatomy	1	-	-	-	-	1	-	-
Histology	1	1	-	-	-	-	-	-
Biochemistry	16	5	-	-	-	7	2	2
Molecular biology	1	-	-	-	-	1	-	-
Cell biology (cytology, cell physiology	1	-	-	-	-	1	-	-
Marine biology	2	-	-	-	-	-	-	2
Neurosciences	1	-	-	-	-	1	-	-
Other (Environmental)	4	1	-	1	-	1	1	-
BUSINESS AND MANAGEMENT Total	3,500	1,325	396	236	55	222	602	664
Business and commerce, general	439	192	27	22	8	27	45	118
Accounting	1,334	563	197	85	15	66	214	194
Business statistics	2	1	-	1	-	-	-	-
Banking and finance	91	24	23	9	2	9	12	12
Business management and administration	1,133	392	91	66	20	84	211	269
Marketing and purchasing	260	86	24	26	4	18	58	44
Transportation and public utilities	13	11	-	-	-	-	2	-
Insurance	14	7	4	2	-	-	-	1
International business	1	-	1	-	-	-	-	-
Secretarial studies (baccalaureate & higher programs	17	8	3	-	-	1	4	1
Personnel management	1	-	-	-	1	-	-	-
Labor & industrial relations	25	8	2	5	1	-	8	1
Business economics	158	30	21	16	3	16	48	24
Other (Finance)	12	3	3	4	1	1	-	-

Table 22.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
COMMUNICATIONS Total	363	80	49	70	16	16	36	96
Communications, general	129	22	7	11	5	4	13	67
Journalism (printed media)	132	36	17	29	2	7	12	29
Radio/television	100	22	24	30	8	5	11	-
Advertising	2	-	1	-	1	-	-	-
COMPUTER AND INFORMATION SCIENCES Total	106	48	19	2	-	5	16	16
Computer and information sciences, general	38	8	8	1	-	4	5	12
Information sciences and systems	28	19	5	-	-	-	2	2
Data processing	2	1	1	-	-	-	-	-
Computer programming	2	2	-	-	-	-	-	-
Systems analysis	15	8	5	1	-	-	1	-
Other (Math. & Computer Sci.)	21	10	-	-	-	1	8	2
EDUCATION Total	10,316	3,408	941	1,093	163	544	2,680	1,507
Education, general	157	79	13	7	13	12	10	23
Elementary education, general	3,998	1,277	330	394	55	133	1,235	574
Secondary education, general	166	63	22	13	9	13	31	15
Agricultural education	23	13	1	3	1	1	4	-
English education	379	119	29	32	6	21	107	65
Home economics education	191	66	28	15	5	6	48	23
French	88	18	4	13	3	9	33	8
German	33	4	1	9	-	3	9	7
Spanish	113	17	13	14	2	4	54	9
All other foreign language education	18	4	1	2	2	5	2	2
Nursing education	194	85	5	39	-	6	9	50
Biology education	115	41	13	9	-	7	31	14
Chemistry education	22	14	4	3	-	-	1	-
Earth and space science education	66	33	9	9	-	5	5	5
Physics education	10	4	-	1	-	1	-	4
Social studies education	567	62	16	92	14	25	237	121
Speech and dramatic arts education	29	4	4	6	-	9	6	-
Junior high school education	1	1	-	-	-	-	-	-
Higher education, general	22	3	6	4	-	-	9	-
Special education, general	323	128	42	12	8	22	87	24
Administration of special education	84	21	10	4	-	20	2	27
Education of the mentally retarded	617	255	91	41	3	22	104	101
Education of the visually handicapped	37	12	6	4	-	-	5	10
Speech correction	172	50	14	14	1	57	12	19
Education of the emotionally disturbed	96	49	21	19	-	1	2	4
Remedial education	1	1	-	-	-	-	-	-
Special learning disabilities	2	-	1	-	-	1	-	-
Education of the physically handicapped	53	19	9	1	1	1	9	13
Social foundations (history & philosophy of education	3	-	-	-	-	2	-	1
Educational psychology (include learning theory)	1	-	-	1	-	-	-	-
Pre-elementary education (kindergarten)	124	71	4	18	2	4	20	5
Student personnel (counseling and guidance)	2	1	-	-	-	1	-	-
Educational administration	5	1	-	1	2	1	-	-
Reading educaton (methodology and theory)	12	3	1	2	-	2	1	3
Art education (methodology and theory)	257	63	16	37	1	6	71	63
Music education (methodology and theory)	435	151	67	23	5	47	79	63
Mathematics education (methodology and theory)	292	102	39	42	12	20	35	42

Table 22.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
EDUCATION (continued)								
Science education (methodology and theory)	15	7	2	1	-	1	1	3
Physical education	884	221	52	110	8	42	309	142
Driver and safety education	8	4	1	2	-	-	1	-
Health education (include family life education)	41	10	7	8	2	5	5	4
Business, commerce, and distributive education	210	97	13	35	6	10	34	15
Industrial arts, vocational, and technical education	253	169	29	33	1	6	5	10
Other (unspecified)	24	10	2	6	-	-	1	5
" (Communication education)	68	15	2	5	-	9	22	15
" (Rehab. education)	17	3	2	2	1	1	1	7
" (Library science)	75	27	10	6	-	3	18	11
" (Dental hygienist)	13	11	1	1	-	-	-	-
ENGINEERING Total	873	305	249	9	13	120	81	96
Engineering, general	53	21	7	-	1	12	11	1
Bioengineering and biomedical engineering	1	1	-	-	-	-	-	-
Chemical engineering (include petroleum refining)	106	30	49	-	4	13	2	8
Civil, construction, and transportation engineering	146	58	37	1	1	21	17	11
Electrical, electronics, and communications engineering	184	66	64	2	1	15	16	20
Mechanical engineering	154	44	47	2	6	25	7	23
Industrial and management engineering	69	20	20	1	-	10	8	10
Metallurgical engineering	29	9	6	-	-	10	2	2
Nuclear engineering	1	-	-	-	-	-	1	-
Engineering technologies (baccalaureate and higher programs)	109	55	14	3	-	8	13	16
Other (Fundamental science)	17	1	5	-	-	6	4	1
" (Pre-engineering)	4	-	-	-	-	-	-	4
FINE AND APPLIED ARTS Total	1,048	175	101	98	37	114	207	316
Fine arts, general	148	14	7	16	5	7	40	59
Art (painting, drawing, sculpture)	307	33	19	25	14	23	95	98
Art history & appreciation	43	5	7	9	4	9	4	5
Music (performing, composition, theory)	134	42	10	12	2	31	6	31
Music (liberal arts program)	59	9	4	7	3	18	10	8
Music history & appreciation (musicology)	2	-	-	-	-	2	-	-
Dramatic arts	73	5	13	10	5	12	7	21
Dance	3	1	-	-	1	1	-	-
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)	234	58	35	15	3	6	37	80
Cinematography	4	1	1	-	-	-	-	2
Photography	28	4	4	3	-	1	6	10
Other (Speech)	13	3	1	1	-	4	2	2
FOREIGN LANGUAGES Total	497	61	33	77	32	95	81	118
Foreign languages, general (includes concentration on more than one foreign language without major emphasis on one lang.)	45	17	3	3	1	4	8	9
French	155	14	13	23	12	33	30	30
German	79	5	3	8	9	14	11	29
Italian	11	-	2	4	1	4	-	-
Spanish	168	22	11	36	6	22	28	43
Russian	19	-	1	1	1	8	3	5
Japanese	2	-	-	-	1	1	-	-
Latin	5	1	-	-	-	3	-	1
Greek, classical	2	-	-	-	1	1	-	-
Hebrew	3	1	-	-	-	2	-	-
Arabic	1	-	-	-	-	1	-	-
Slavic languages (other than Russian)	6	1	-	2	-	1	1	1
African Languages (Non-Semitic)	1	-	-	-	-	1	-	-

Table 22.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
HEALTH PROFESSIONS Total	1,069	474	131	20	4	123	107	210
Health professions, general	1	-	-	-	-	-	1	-
Hospital and health care administration	2	-	-	-	1	1	-	-
Nursing (baccalaureate and higher programs)	416	208	62	6	-	22	52	66
Dentistry, D.D.S. or D.M.D. degree	6	-	-	-	-	6	-	-
Medicine, M.D. degree	34	-	-	-	-	32	-	2
Osteopathic medicine, D.O. degree	38	-	-	-	-	6	-	32
Pharmacy	200	88	44	-	-	13	-	55
Physical therapy	1	1	-	-	-	-	-	-
Dental hygiene (baccalaureate and higher programs)	5	2	-	-	-	-	-	3
Public health	1	-	-	-	-	1	-	-
Medical record librarianship	17	7	8	-	-	1	1	-
Podiatry (Pod.D. or D.P.) or podiatric medicine (D.P.M.)	1	-	-	-	-	1	-	-
Veterinary medicine (D.V.M. degree)	3	-	-	-	-	2	-	1
Speech pathology & audiology	23	9	-	2	-	2	1	9
Chiropractic	1	-	-	-	-	1	-	-
Clinical social work (medical and psychiatric and specialized rehabilitation services)	15	9	-	-	-	1	2	3
Medical laboratory technologies (baccalaureate and higher programs)	182	114	15	1	1	6	6	39
Dental technologies (baccalaureate and higher programs)	3	1	-	1	-	1	-	-
Other (Inhalation therapy and Public school nursing)	120	35	2	10	2	27	44	-
HOME ECONOMICS Total	245	75	22	19	11	20	34	64
Home economics, general	135	37	5	16	3	14	17	38
Clothing and textiles	6	-	2	-	-	-	2	2
Family relations and child development	1	-	1	-	-	-	-	-
Foods and nutrition (include dietetics)	81	34	9	3	1	5	11	18
Institutional management and cafeteria management	8	4	1	-	-	1	-	2
Other (unspecified)	14	-	4	-	2	-	4	4
LAW Total	52	5	-	-	1	42	1	3
Law, general	47	3	-	-	-	40	1	3
Other (unspecified)	5	2	-	-	1	2	-	-
LETTERS Total	1,300	171	74	205	80	266	187	317
English, general	757	123	37	111	42	112	131	201
Literature, English	172	11	4	22	14	34	17	70
Comparative literature	4	-	-	-	-	3	1	-
Classics	15	-	-	6	-	8	-	1
Linguistics (include phonetics, semantics, and philology)	1	-	-	-	-	1	-	-
Speech, debate, and forensic science (rhetoric and public address)	51	4	1	14	1	8	14	9
Creative writing	3	1	-	1	-	1	-	-
Teaching of English as a foreign language	11	-	-	2	1	4	2	2
Philosophy	103	6	2	25	7	41	14	8
Religious studies (exclude theological professions)	177	23	28	24	15	53	8	26
Other (Technical writing)	6	3	2	-	-	1	-	-
LIBRARY SCIENCE Total	119	36	17	19	1	7	21	18
Library science, general	118	35	17	19	1	7	21	18
Other (Unspecified)	1	1	-	-	-	-	-	-

Table 22.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1975
(continued)

HEGIS Degree Field		Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
MATHEMATICS	Total	611	157	60	56	28	105	80	125
Mathematics, general		601	155	59	56	28	99	80	124
Statistics, mathematical and theoretical		1	-	-	-	-	1	-	-
Applied mathematics		5	2	1	-	-	1	-	1
Other (unspecified)		4	-	-	-	-	4	-	-
PHYSICAL SCIENCES	Total	645	103	67	35	22	266	54	98
Physical sciences, general		8	1	-	1	-	3	1	2
Physics, general (exclude biophysics)		134	18	15	8	6	62	8	17
Chemistry, general (exclude biochemistry)		323	55	27	15	6	147	25	48
Inorganic chemistry		3	-	-	-	-	3	-	-
Pharmaceutical chemistry		2	-	-	-	-	2	-	-
Atmospheric sciences and meterology		15	-	5	-	-	7	1	2
Geology		79	11	12	2	6	19	8	21
Earth sciences, general		53	11	6	5	3	13	8	7
Other (Environmental Electronics)		28	7	2	4	1	10	3	1
PSYCHOLOGY	Total	1,411	239	63	189	45	299	279	297
Psychology, general		1,364	228	59	184	43	279	277	294
Experimental psychology (animal and human)		2	-	-	-	-	2	-	-
Clinical psychology		4	-	-	-	-	4	-	-
Psychology for counseling		16	5	-	1	-	10	-	-
Social psychology		3	-	-	-	-	2	1	-
Developmental psychology		1	-	-	-	-	1	-	-
Other (unspecified)		21	6	4	4	2	1	1	3
PUBLIC AFFAIRS AND SERVICES	Total	491	130	39	51	7	33	93	138
Public administration		9	1	1	-	-	7	-	-
Parks and recreation mgt.		58	5	2	3	-	-	7	41
Social work and helping services (other than clinical social work)		250	74	13	26	2	21	65	49
Law enforcement & corrections (bacc. and higher programs)		155	46	15	22	4	1	19	48
Other (unspecified)		19	4	8	-	-	4	2	-
SOCIAL SCIENCES	Total	3,360	409	153	488	215	595	556	944
Social sciences, general		337	35	19	34	11	26	46	166
Anthropology		122	17	3	17	8	29	12	36
Archaeology		11	-	-	1	1	6	-	3
Economics		226	42	22	32	10	52	27	41
History		659	57	25	120	59	123	108	167
Geography		82	11	2	11	11	7	14	26
Political science & govt.		793	61	30	112	57	204	118	211
Sociology		859	125	40	120	51	120	173	230
Criminology		197	53	7	23	5	13	45	51
International relations		19	2	1	3	-	1	7	5
Urban studies		24	2	1	11	-	2	4	4
Other (unspecified)		31	4	3	4	2	12	2	4
THEOLOGY	Total	215	46	42	16	9	77	5	20
Theological professions, gen.		115	9	26	5	5	55	1	14
Religious music		11	2	3	-	1	4	1	-
Religious education		56	27	9	8	2	7	1	2
Other (unspecified)		33	8	4	3	1	11	2	4
INTERDISCIPLINARY STUDIES	Total	311	51	11	48	16	58	73	54
General liberal arts & sci.		139	24	2	38	9	27	20	19
Biological & physical sci.		82	9	3	5	1	20	24	20
Humanities and social sci.		66	13	2	2	4	7	29	9
Other (unspecified)		24	5	4	3	2	4	-	6

Table 22.1

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1975

HEGIS Degree Field		Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
AGRICULTURE AND NATURAL RESOURCES									
Natural resources management (Conservation)		21	4	2	5	-	2	8	-
ARCHITECTURE AND ENVIRONMENTAL DESIGN	Total	39	6	4	3	-	2	5	19
Environmental design, general		13	3	2	3	-	1	3	1
City, community, and regional planning		14	3	1	-	-	-	1	9
Other (Environmental studies)		12	-	1	-	-	1	1	9
BIOLOGICAL SCIENCES	Total	308	42	14	21	-	32	41	158
Biology, general		303	41	14	21	-	31	40	156
Biochemistry		3	1	-	-	-	1	1	-
Marine Biology		2	-	-	-	-	-	-	2
BUSINESS & MANAGEMENT	Total	922	304	68	51	8	28	179	284
Business and commerce, general		71	24	1	-	-	1	1	44
Accounting		338	133	41	13	2	7	68	74
Banking and finance		2	1	-	-	-	1	-	-
Business management and administration		402	115	20	25	4	13	95	130
Marketing and purchasing		61	21	4	2	1	4	9	20
Business economics		48	10	2	11	1	2	6	16
COMMUNICATIONS	Total	84	10	6	5	-	2	9	52
Communications, general		73	9	4	4	-	1	6	49
Journalism (printed media)		11	1	2	1	-	1	3	3
COMPUTER AND INFORMATION SCIENCES	Total	43	20	7	1	-	1	9	5
Computer and information sciences, general		8	2	3	-	-	-	-	3
Systems analysis		14	8	4	1	-	-	1	-
Other (Math & Computer Sci.)		21	10	-	-	-	1	8	2
EDUCATION	Total	7,892	2,461	648	880	67	347	2,228	1,261
Elementary education, general		3,049	883	206	288	26	76	1,081	489
Secondary education, general		67	15	8	6	2	4	22	10
Agricultural education		20	12	1	2	1	1	3	-
English education		233	72	11	24	2	4	67	53
Home economics education		158	57	11	13	1	6	47	23
French		69	16	2	12	1	7	23	8
German		26	4	-	6	-	2	7	7
Spanish		92	15	9	12	-	3	44	9
All other foreign language education (Russian)		9	3	-	1	-	2	1	2
Nursing education		192	84	4	39	-	6	9	50
Biology education		105	35	10	9	-	7	30	14
Chemistry education		16	9	4	3	-	-	-	-
Earth & space science education		60	30	8	9	-	4	4	5
Physics education		6	3	-	-	-	1	-	2
Social studies education		462	47	10	81	4	23	195	110
Speech and dramatic arts education (communication)		19	2	3	6	-	5	3	-
Special education, general		245	107	16	7	7	18	46	24
Education of the mentally retarded		611	250	91	41	3	22	103	101
Education of the visually handicapped		37	12	6	4	-	-	5	10
Speech correction		171	50	14	14	-	57	17	19
Education of the emotionally disturbed		96	49	21	19	-	1	2	4
Education of the physically handicapped		53	19	9	1	1	1	9	13
Pre-elementary education (kindergarten)		36	14	-	6	-	1	15	-

Table 22.1

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1975

(continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
EDUCATION (continued)								
Art education methodology and theory)	189	50	13	34	-	5	32	55
Music education (methodology and theory)	242	89	38	18	2	16	54	25
Mathematics education (methodology and theory)	217	76	29	39	3	12	30	28
Science education (methodology and theory)	12	5	2	-	-	1	1	3
Physical education	845	198	48	105	6	41	306	141
Driver and safety education	8	4	1	2	-	-	1	-
Health education (include family life education)	18	3	2	4	-	4	2	3
Business, commerce and distributive education	145	62	7	30	6	6	24	10
Industrial arts, vocational, and technical education	211	130	29	31	1	6	4	10
Other (Communication)	68	15	2	5	-	9	22	15
" (Rehab. Education)	17	3	2	2	1	1	1	7
" (Library Science)	75	27	10	6	-	3	18	11
" (Dental Hygienist Ed.)	13	11	1	1	-	-	-	-
ENGINEERING								
Other (Pre-engineering)	4	-	-	-	-	-	-	4
FINE AND APPLIED ARTS Total	233	21	3	11	4	5	94	95
Fine arts, general	78	8	-	8	1	-	26	35
Art (painting, drawing, sculpture	90	3	-	4	2	1	62	21
Music (performing, composition, theory)	15	2	-	-	1	-	-	12
Music (liberal arts program)	7	1	-	-	-	1	-	5
Dramatic arts	8	-	-	2	-	-	2	4
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)	33	7	3	-	-	1	4	18
Other (Speech)	2	-	-	-	-	2	-	-
FOREIGN LANGUAGES Total	153	8	3	28	6	17	31	60
French	37	2	1	9	2	3	10	10
German	33	1	1	3	2	3	3	20
Spanish	77	5	1	16	2	9	17	27
Russian	5	-	-	-	-	2	-	3
Non-Russian Slavic language	1	-	-	-	-	-	1	-
HEALTH PROFESSIONS Total	168	89	5	12	1	4	13	44
Nursing (baccalaureate and higher programs)	11	3	2	-	-	1	-	5
Dental hygiene (baccalaureate and higher programs)	3	-	-	-	-	-	-	3
Speech pathology & audiology	23	9	-	2	-	2	1	9
Medical laboratory technologies (baccalaureate and higher programs)	81	48	3	-	-	1	3	26
Other (Inhalation Therapy)	19	14	-	2	-	-	3	-
Other (Public School Nursing	31	15	-	8	1	-	6	1
HOME ECONOMICS Total	154	45	15	13	2	9	19	51
Home economics, general	60	15	1	10	-	3	3	28
Clothing and textiles	6	-	2	-	-	-	2	2
Family relations and child development	1	-	1	-	-	-	-	-
Foods and nutrition (include dietetics)	67	27	7	3	-	5	10	15
Institutional management and cafeteria management	6	3	-	-	-	1	-	2
Other (child option)	14	-	4	-	2	-	4	4

Table 22.1

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1975
(continued)

HEGIS Degree Field		Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
LETTERS	Total	283	55	4	40	6	28	57	93
English, general		222	47	2	28	5	19	39	82
Literature, English		15	4	-	1	-	3	7	-
Speech, debate, and forensic science (rhetoric and public address)		18	2	1	4	-	3	5	3
Philosophy		28	2	1	7	1	3	6	8
LIBRARY SCIENCE									
Library science, general		113	34	17	19	-	5	20	18
MATHEMATICS	Total	270	49	24	29	15	21	51	81
Mathematics, general		268	49	23	29	15	21	51	80
Applied mathematics		2	-	1	-	-	-	-	1
PHYSICAL SCIENCES	Total	195	43	23	16	6	46	26	35
Physical sciences, general		5	1	-	-	-	2	-	2
Physics, general (exclude biophysics)		33	5	1	4	-	13	5	5
Chemistry, general (exclude biochemistry		68	18	6	4	2	17	10	11
Geology		37	6	10	1	2	5	4	9
Earth sciences, general		43	11	6	5	2	6	6	7
Other (Environmental)		9	2	-	2	-	3	1	1
PSYCHOLOGY									
Psychology, general		480	70	9	60	12	51	127	151
PUBLIC AFFAIRS AND SERVICES	Total	245	43	16	18	2	4	60	102
Parks and recreation management		58	5	2	3	-	-	7	41
Social work and helping services (other than clinical social work)		128	27	4	8	1	3	42	43
Law enforcement & corrections (baccalaureate and higher programs)		45	7	3	7	1	-	9	18
Other (Safety management)		14	4	7	-	-	1	2	-
SOCIAL SCIENCES	Total	1,187	147	44	143	42	99	227	485
Social sciences, general		190	10	11	14	5	12	20	118
Anthropology		66	15	3	6	3	8	9	22
Economics		66	18	5	9	2	3	12	17
History		150	17	2	21	9	19	28	54
Geography		77	11	2	8	10	7	13	26
Political science and government		221	28	9	27	3	27	32	95
Sociology		302	26	6	47	10	20	93	100
Criminology		98	21	5	5	-	3	17	47
International relations		3	-	-	1	-	-	-	2
Urban studies		14	1	1	5	-	-	3	4
INTERDISCIPLINARY STUDIES	Total	124	21	5	5	5	13	42	33
General liberal arts & sciences		19	6	-	-	-	-	7	6
Biological & physical sciences		66	8	3	2	1	8	24	20
Humanities & social sciences		38	7	2	2	4	5	11	7
Other (Dental hygiene)		1	-	-	1	-	-	-	-

Table 22.2

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1975

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
AREA STUDIES								
American studies	8	2	-	-	-	2	-	4
BIOLOGICAL SCIENCES								
Biology, general	28	6	-	7	2	10	2	1
BUSINESS AND MANAGEMENT Total	226	125	23	39	8	11	18	2
Business and commerce, general	7	1	-	-	2	2	2	-
Accounting	102	65	9	12	1	8	5	2
Business statistics	2	1	-	1	-	-	-	-
Banking and finance	9	3	1	2	-	-	3	-
Business management and administration	59	37	6	10	3	1	2	-
Marketing and purchasing	28	11	3	10	1	-	3	-
Insurance	4	2	1	1	-	-	-	-
Labor and industrial relations	14	5	2	3	1	-	3	-
Other (unspecified)	1	-	1	-	-	-	-	-
COMMUNICATIONS Total	89	27	15	28	5	4	10	-
Journalism (printed media)	40	16	3	13	1	2	5	-
Radio/television	49	11	12	15	4	2	5	-
COMPUTER AND INFORMATION SCIENCES Total	11	9	-	1	-	1	-	-
Computer and information sciences, general	6	4	-	1	-	1	-	-
Information sciences and systems	5	5	-	-	-	-	-	-
EDUCATION Total	390	234	24	72	8	11	31	10
Elementary Education, general	150	78	8	36	3	5	19	1
Secondary education, general	28	13	5	6	1	1	2	-
Special education, general	2	1	-	1	-	-	-	-
Educational psychology (include learning theory)	1	-	-	1	-	-	-	-
Pre-elementary education (kindergarten)	79	49	4	12	2	3	5	4
Student personnel (counseling and guidance	2	1	-	-	-	1	-	-
Reading education (methodology and theory)	1	-	-	1	-	-	-	-
Art education (methodology and theory)	3	2	-	-	-	-	-	1
Music education (methodolgy and theory)	4	4	-	-	-	-	-	-
Mathematics education (methodology and theory)	9	7	1	-	-	-	-	1
Science education (methodology and theory)	3	2	-	1	-	-	-	-
Physical education	39	23	4	5	2	1	3	1
Health education (include family life education)	6	2	-	3	-	-	-	1
Business, commerce, and distributive education	16	10	2	3	-	-	1	-
Industrial arts, vocational, and technical education	41	39	-	2	-	-	-	-
Other, (unspecified)	6	3	-	1	-	-	1	1

Table 22.2

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field		Total Reported	Field Prepared In Pa.	Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
ENGINEERING									
Engineering technologies (baccalaureate and higher programs)		39	22	10	3	-	3	1	-
FINE AND APPLIED ARTS	Total	71	25	3	15	5	14	8	1
Art (painting, drawing, sculpture)		19	4	1	4	3	4	2	1
Art history and appreciation		8	-	-	2	-	4	2	-
Music (performing, composition, theor		25	19	1	3	-	1	1	-
Music (liberal arts program)		5	-	-	3	-	2	-	-
Music history and appreciation (musicology)		1	-	-	-	-	1	-	-
Dramatic arts		13	2	1	3	2	2	3	-
FOREIGN LANGUAGES	Total	21	2	1	9	1	6	1	1
French		3	-	-	1	1	-	1	-
German		1	-	-	1	-	-	-	-
Italian		6	-	1	3	-	2	-	-
Spanish		6	1	-	3	-	1	-	1
Russian		2	-	-	1	-	1	-	-
Hebrew		3	1	-	-	-	2	-	-
HEALTH PROFESSIONS	Total	4	4	-	-	-	-	-	-
Physical therapy		1	1	-	-	-	-	-	-
Dental hygiene (baccalaureate and higher programs)		2	2	-	-	-	-	-	-
Medical record librarianship		1	1	-	-	-	-	-	-
LAW	Total	4	2	-	-	-	2	-	-
Law, general		1	1	-	-	-	-	-	-
Other, (unspecified)		3	1	-	-	-	2	-	-
LETTERS	Total	73	8	1	36	3	6	13	6
English, general		54	7	-	24	3	3	11	6
Speech, debate, and forensic science (rhetoric and public address)		10	1	-	6	-	2	1	-
Philosophy		5	-	-	4	-	-	1	-
Religious studies (exclude theological professions)		3	-	1	2	-	-	-	-
MATHEMATICS									
Mathematics, general		13	5	1	5	-	1	1	-
PHYSICAL SCIENCES	Total	19	7	2	1	-	9	-	-
Physics, general (exclude biophysics)		3	1	-	1	-	1	-	-
Chemistry, general (exclude biochemistry		13	6	2	-	-	5	-	-
Geology		3	-	-	-	-	3	-	-
PSYCHOLOGY	Total	106	30	2	35	5	26	6	2
Psychology, general		105	30	2	35	5	25	6	2
Experimental psychology (animal and human)		1	-	-	-	-	1	-	-

Table 22.2

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
PUBLIC AFFAIRS AND SERVICES Total	57	22	1	14	-	12	8	-
Social work and helping services (other than clinical social work)	54	20	-	14	-	12	8	-
Law enforcement & corrections (baccalaureate and higher programs)	3	2	1	-	-	-	-	-
SOCIAL SCIENCES Total	210	28	2	78	14	60	22	6
Social Sciences, general	5	1	-	4	-	-	-	-
Anthropology	18	1	-	7	2	6	1	1
Economics	19	7	1	6	1	2	2	-
History	50	4	-	19	3	18	5	1
Geography	5	-	-	3	1	-	1	-
Political science and government	56	1	1	19	3	23	6	3
Sociology	46	14	-	13	4	8	6	1
Urban studies	7	-	-	5	-	1	1	-
Other (unspecified)	4	-	-	2	-	2	-	-
INTERDISCIPLINARY STUDIES Total	79	5	2	30	4	30	5	3
General liberal arts and sciences	64	4	2	27	4	19	5	3
Biological and physical sciences	15	1	-	3	-	11	-	-

Table 22.3

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Aided Institutions in Pennsylvania, 1975

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
AGRICULTURE AND NATURAL RESOURCES Total	133	57	29	9	2	12	5	19
Agronomy (field crops, and crop management)	24	15	1	-	2	3	-	3
Animal science (husbandry)	26	8	4	2	-	4	1	7
Dairy science (husbandry)	16	6	5	-	-	2	2	1
Horticulture (fruit and vegetable production)	21	8	6	1	-	1	1	4
Ornamental horticulture (floriculture, nursery sci.)	35	17	9	4	-	2	1	2
Food science and technology	11	3	4	2	-	-	-	2
ARCHITECTURE AND ENVIRONMENTAL DESIGN								
Environmental design, general	10	3	3	-	-	-	1	3
BIOLOGICAL SCIENCES								
Biology, general	39	9	5	4	3	9	-	9
BUSINESS AND MANAGEMENT								
Business management and administration	35	17	1	7	-	-	-	10
EDUCATION								
Reading education (methodology and theory)	11	3	1	1	-	2	1	3
FINE AND APPLIED ARTS Total	202	36	22	11	1	6	6	120
Fine arts, general	23	4	1	-	-	-	2	16
Art (painting, drawing, sculpture	69	7	4	7	1	5	2	43
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)	84	18	13	2	-	1	1	49
Cinematography	4	1	1	-	-	-	-	2
Photography	17	4	3	2	-	-	-	8
Other (unspecified)	5	2	-	-	-	-	1	2
HEALTH PROFESSIONS Total	76	48	15	-		2	-	11
Nursing (baccalaureate and higher programs)	56	35	11	-	-	2	-	8
Medical laboratory technologies (baccalaureate and higher programs)	20	13	4	-	-	-	-	3
PHYSICAL SCIENCES								
Chemistry, general (exclude biochemistry)	3	1	-	1	-	1	-	-

Table 22.4

Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1975

HEGIS Degree Field		Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
AGRICULTURE AND NATURAL RESOURCES	Total	9	1	-	-	3	2	2	1
Agriculture, general		1	-	-	-	1	-	-	-
Ornamental horticulture (floriculture, nursery sci.)		1	1	-	-	-	-	-	-
Natural resources management		6	-	-	-	1	2	2	1
Range management		1	-	-	-	1	-	-	-
ARCHITECTURE AND ENVIRONMENTAL DESIGN	Total	43	11	6	1	2	13	3	7
Architecture		37	10	6	-	2	10	2	7
Interior design		4	1	-	1	-	1	1	-
City, community, and regional planning		2	-	-	-	-	2	-	-
AREA STUDIES	Total	29	1	1	2	5	11	6	3
Asian studies, general		5	-	-	-	1	1	3	-
Russian and Slavic studies		8	-	-	1	-	5	2	-
American studies		15	-	1	1	4	5	1	3
Other (French area)		1	1	-	-	-	-	-	-
BIOLOGICAL SCIENCES	Total	866	132	51	39	39	344	140	121
Biology, general		836	126	50	38	39	329	137	117
Botany, general		1	-	1	-	-	-	-	-
Bacteriology		3	-	-	-	-	1	1	1
Zoology, general		2	-	-	-	-	2	-	-
Physiology, human and animal		1	-	-	-	-	1	-	-
Microbiology		1	-	-	-	-	-	-	1
Anatomy		1	-	-	-	-	1	-	-
Histology		1	1	-	-	-	-	-	-
Biochemistry		13	4	-	-	-	6	1	2
Molecular biology		1	-	-	-	-	1	-	-
Cell biology (cytology, cell physiology)		1	-	-	-	-	1	-	-
Neurosciences		1	-	-	-	-	1	-	-
Other (unspecified)		4	1	-	1	-	1	1	-
BUSINESS AND MANAGEMENT	Total	2,317	879	304	139	39	183	405	368
Business and commerce, general		361	167	26	22	6	24	42	74
Accounting		894	365	147	60	12	51	141	118
Banking and finance		80	20	22	7	2	8	9	12
Business management and administration		637	223	64	24	13	70	114	129
Marketing and purchasing		171	54	17	14	2	14	46	24
Transportation and public utilities		13	11	-	-	-	-	2	-
Insurance		10	5	3	1	-	-	-	1
International business		1	-	1	-	-	-	-	-
Secretarial studies (baccalaureate & higher programs		17	8	3	-	-	1	4	1
Personnel management		1	-	-	-	1	-	-	-
Labor & industrial relations		11	3	-	2	-	-	5	1
Business economics		110	20	19	5	2	14	42	8
Other (finance)		10	3	1	4	1	1	-	-
Other (sales)		1	-	1	-	-	-	-	-
COMMUNICATIONS	Total	190	43	28	37	11	10	17	44
Communications, general		56	13	3	7	5	3	7	18
Journalism (printed media)		81	19	12	15	1	4	4	26
Radio/television		51	11	12	15	4	3	6	-
Advertising		2	-	1	-	1	-	-	-

Table 22.4

Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
COMPUTER AND INFORMATION SCIENCES	52	19	12	-	-	3	7	11
Computer and information sciences, general	24	2	5	-	-	3	5	9
Information sciences and systems	23	14	5	-	-	-	2	2
Data processing	2	1	1	-	-	-	-	-
Computer programming	2	2	-	-	-	-	-	-
Systems analysis	1	-	1	-	-	-	-	-
EDUCATION	2,023	710	268	140	88	184	400	233
Education, general	157	79	13	7	13	12	10	23
Elementary education, general	799	316	116	70	26	52	135	84
Secondary education, general	71	35	9	1	6	8	7	5
Agricultural education	3	1	-	1	-	-	1	-
English education	146	47	18	8	4	17	40	12
Home economics education	33	9	17	2	4	-	1	-
French	19	2	2	1	2	2	10	-
German	7	-	1	3	-	1	2	-
Spanish	21	2	4	2	2	1	10	-
All other foreign language education (Russian)	9	1	1	1	2	3	1	-
Nursing education	2	1	1	-	-	-	-	-
Biology education	10	6	3	-	-	-	1	-
Chemistry education	6	5	-	-	-	-	1	-
Earth and space science education	6	3	1	-	-	1	1	-
Physics education	4	1	-	1	-	-	-	2
Social studies education	105	15	6	11	10	10	42	11
Speech and dramatic arts education	10	2	1	-	-	4	3	-
Junior high school education	1	1	-	-	-	-	-	-
Higher education, general	22	3	6	4	-	-	9	-
Special education, general	76	20	6	4	1	4	41	-
Administration of special education	84	21	10	4	-	20	2	27
Education of the mentally retarded	6	5	-	-	-	-	1	-
Speech correction	1	-	-	-	1	-	-	-
Remedial education	1	1	-	-	-	-	-	-
Special learning disabilities	2	-	1	-	-	1	-	-
Social foundations (history & philosophy of education	3	-	-	-	-	2	-	1
Pre-elementary education (kindergarten)	9	8	-	-	-	-	-	1
Educational administration	5	1	-	1	2	1	-	-
Art education (methodology and theory)	65	11	3	3	1	1	39	7
Music education (methodology and theory)	189	58	29	5	3	31	25	38
Mathematics education (methodology and theory)	66	19	9	3	9	8	5	13
Health education (include family life education)	17	5	5	1	2	1	3	-
Business, commerce, and distributive education	49	25	4	2	-	4	9	5
Other (home ec. ed. & bus. ed.)	19	7	2	5	-	-	1	4

Table 22.4

Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
ENGINEERING Total	830	283	239	6	13	117	80	92
Engineering, general	53	21	7	-	1	12	11	1
Bioengineering and biomedical engineering	1	1	-	-	-	-	-	-
Chemical engineering (include petroleum refining	106	30	49	-	4	13	2	8
Civil, construction, and transportation engineering	146	58	37	1	1	21	17	11
Electrical, electronics, and communications engineering	184	66	64	2	1	15	16	20
Mechanical engineering	154	44	47	2	6	25	7	23
Industrial and management engineering	69	20	20	1	-	10	8	10
Metallurgical engineering	29	9	6	-	-	10	2	2
Engineering mechanics (Nuclear Engr.)	1	-	-	-	-	-	1	-
Engineering technologies (baccalaureate and higher programs)	70	33	4	-	-	5	12	16
Other (Fundamental sci. pre-engineering)	17	1	5	-	-	6	4	1
FINE AND APPLIED ARTS ARTS Total	542	93	73	61	27	89	99	100
Fine arts, general	47	2	6	8	4	7	12	8
Art (painting, drawing, sculpture)	129	19	14	13	8	13	29	33
Art history and appreciation	35	5	7	7	4	5	2	5
Music (performing, composition, theory)	94	21	9	9	1	30	5	19
Music (liberal arts program)	47	8	4	4	3	15	10	3
Music history and appreciation (musicology)	1	-	-	-	-	1	-	-
Dramatic arts	52	3	12	5	3	10	2	17
Dance	3	1	-	-	1	1	-	-
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)	117	33	19	13	3	4	32	13
Photography	11	-	1	1	-	1	6	2
Other (unspecified)	6	1	1	1	-	2	1	-
FOREIGN LANGUAGES Total	323	51	29	40	25	72	49	57
Foreign languages, general (includes concentration on more than one foreign language without major emphasis on one language)	45	17	3	3	1	4	8	9
French	115	12	12	13	9	30	19	20
German	45	4	2	4	7	11	8	9
Italian	5	-	1	1	1	2	-	-
Spanish	85	16	10	17	4	12	11	15
Russian	12	-	1	-	1	5	3	2
Japanese	2	-	-	-	1	1	-	-
Latin	5	1	-	-	-	3	-	1
Greek, classical	2	-	-	-	1	1	-	-
Arabic	1	-	-	-	-	1	-	-
Slavic languages (other than Russian)	5	1	-	2	-	1	-	1
African languages (non-Semitic)	1	-	-	-	-	1	-	-

Table 22.4

Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
HEALTH PROFESSIONS Total	821	333	111	8	3	117	94	155
Health professions, general	1	-	-	-	-	-	1	-
Hospital and health care administration	2	-	-	-	1	1	-	-
Nursing (baccalaureate and higher programs)	349	170	49	6	-	19	52	53
Dentistry, D.D.S. or D.M.D. degree	6	-	-	-	-	6	-	-
Medicine, M.D. degree	34	-	-	-	-	32	-	2
Osteopathic medicine, D.O. degree	38	-	-	-	-	6	-	32
Pharmacy	200	88	44	-	-	13	-	55
Public health	1	-	-	-	-	1	-	-
Medical record librarianship	16	6	8	-	-	1	1	-
Podiatry (Pod.D. or D.P.) or podiatric medicine (D.P.M.)	1	-	-	-	-	1	-	-
Veterinary medicine (D.V.M. degree)	2	-	-	-	-	2	-	-
Chiropractic	1	-	-	-	-	1	-	-
Clinical social work (medical and psychiatric and specialized rehabilitation services)	15	9	-	-	-	1	2	3
Medical laboratory technologies (baccalaureate and higher programs)	81	53	8	1	1	5	3	10
Dental technologies (baccalaureate and higher programs)	3	1	-	1	-	1	-	-
Other (unspecified)	71	6	2	-	1	27	35	-
HOME ECONOMICS Total	91	30	7	6	9	11	15	13
Home economics, general	75	22	4	6	8	11	14	10
Foods and nutrition (include dietetics)	14	7	2	-	1	-	1	3
Institutional management and cafeteria management	2	1	1	-	-	-	-	-
LAW Total	48	3	-	-	1	40	1	3
Law, general	46	2	-	-	-	40	1	3
Other (paralegal)	2	1	-	-	1	-	-	-
LETTERS Total	944	108	69	129	71	232	117	218
English, general	481	69	35	59	34	90	81	113
Literature, English	157	7	4	21	14	31	10	70
Comparative literature	4	-	-	-	-	3	1	-
Classics	15	-	-	6	-	8	-	1
Speech, debate, and forensic science (rhetoric and public address)	23	1	-	4	1	3	8	6
Creative writing	3	1	-	1	-	1	-	-
Teaching of English as a foreign language	11	-	-	2	1	4	2	2
Philosophy	70	4	1	14	6	38	7	-
Religious studies (exclude theological professions)	174	23	27	22	15	53	8	26
Other (technical writing)	6	3	2	-	-	1	-	-
LIBRARY SCIENCE Total	6	2	-	-	1	2	1	-
Library science, general	5	1	-	-	1	2	1	-
Other (unspecified)	1	1	-	-	-	-	-	-

Table 22.4

Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1975 (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
MATHEMATICS Total	328	103	35	22	13	83	28	44
Mathematics, general	320	101	35	22	13	77	28	44
Statistics, mathematical and theoretical	1	-	-	-	-	1	-	-
Applied mathematics	3	2	-	-	-	1	-	-
Other (unspecified)	4	-	-	-	-	4	-	-
PHYSICAL SCIENCES Total	428	52	42	17	16	210	28	63
Physical sciences, general	3	-	-	1	-	1	1	-
Physics, general (exclude biophysics)	98	12	14	3	6	48	3	12
Chemistry, general (exclude biochemistry)	239	30	19	10	4	124	15	37
Inorganic chemistry	3	-	-	-	-	3	-	-
Pharmaceutical chemistry	2	-	-	-	-	2	-	-
Atmospheric sciences and meteorology	15	-	5	-	-	7	1	2
Geology	39	5	2	1	4	11	4	12
Earth sciences, general	10	-	-	-	1	7	2	-
Other, (Electronics)	19	5	2	2	1	7	2	-
PSYCHOLOGY Total	825	139	52	94	28	222	146	144
Psychology, general	779	128	48	89	26	203	144	141
Experimental psychology (animal & human)	1	-	-	-	-	1	-	-
Clinical Psychology	4	-	-	-	-	4	-	-
Psychology, for counseling	16	5	-	1	-	10	-	-
Social psychology	3	-	-	-	-	2	1	-
Developmental psychology	1	-	-	-	-	1	-	-
Other (unspecified)	21	6	4	4	2	1	1	3
PUBLIC AFFAIRS AND SERVICES Total	189	65	22	19	5	17	25	36
Public administration	9	1	1	-	-	7	-	-
Social work and helping services (other than clinical social work)	68	27	9	4	1	6	15	6
Law enforcement & corrections (baccalaureate and higher programs)	107	37	11	15	3	1	10	30
International public service (other than diplomatic service)	2	-	1	-	-	1	-	-
Other, (Public policy)	3	-	-	-	1	2	-	-
SOCIAL SCIENCES Total	1,963	234	107	267	159	436	307	453
Social sciences, general	142	24	8	16	6	14	26	48
Anthropology	38	1	-	4	3	15	2	13
Archaeology	11	-	-	1	1	6	-	3
Economics	141	17	16	17	7	47	13	24
History	459	36	23	80	47	86	75	112
Political science and government	516	32	20	66	51	154	80	113
Sociology	511	85	34	60	37	92	74	129
Criminology	99	32	2	18	5	10	28	4
International relations	16	2	1	2	-	1	7	3
Urban studies	3	1	-	1	-	1	-	-
Other (Social relations)	27	4	3	2	2	10	2	4
THEOLOGY	215	46	42	16	9	77	5	20
Theological professions, general	115	9	26	5	5	55	1	14
Religious music	11	2	3	-	1	4	1	-
Religious education	56	27	9	8	2	7	1	2
Other (Missions, ministries)	33	8	4	3	1	11	2	4
INTERDISCIPLINARY STUDIES	108	25	4	13	7	15	26	18
General liberal arts and sciences	56	14	-	11	5	8	8	10
Biological and physical sciences	1	-	-	-	-	1	-	-
Humanities and social sciences	28	6	-	-	-	2	18	2
Other (Self Designers)	23	5	4	2	2	4	-	6

Table 23.0

Employment Status by Degree Field for Associate Degree Graduates for All Institutions

HEGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
DATA PROCESSING TECHNOLOGIES Total	351	194	11	26	-	28	49	43
Data processing, technologies, general	280	153	11	25	-	23	47	21
Keypunch operator and other input preparation technologies	27	16	-	1	-	1	-	9
Computer programmer technologies	33	16	-	-	-	3	2	12
Computer operator and peripheral equipment operation technologies	11	9	-	-	-	1	-	1
HEALTH SERVICES AND PARAMEDICAL TECHNOLOGIES Total	1,505	1,006	26	33	1	155	104	270
Health services assistant technologies, general	23	5	-	-	-	9	1	8
Dental assistant technologies	29	16	1	3	-	2	3	4
Dental hygiene technologies	46	44	1	-	-	-	-	1
Medical or biological laboratory assistant technologies	75	47	2	3	-	11	12	-
Radiologic technologies (X-ray, etc.)	8	8	-	-	-	-	-	-
Nursing, R.N. (less than 4-year program)	613	397	7	11	-	48	29	121
Nursing, practical (L.P.N. or L.V.N.--less than 4-year program)	441	293	7	10	-	63	35	33
Occupational therapy technologies	24	17	-	-	-	2	4	1
Surgical technologies	11	2	-	1	-	1	2	5
Medical record technologies	42	19	-	1	-	6	8	8
Medical assistant and medical office assistant technologies	110	74	1	2	-	1	5	27
Inhalation therapy technologies	46	18	-	-	-	6	5	17
Psychiatric technologies (include mental health aide programs)	43	25	-	1	1	2	-	14
Physical therapy technologies	26	18	6	1	-	1	-	-
Other: Nuclear med. tech.	47	13	1	-	-	3	-	30
Medical secretary	11	10	-	-	-	-	-	1
MECHANICAL AND ENGINEERING TECHNOLOGIES Total	1,547	655	210	140	21	175	170	176
Mechanical and engineering technologies, general	47	22	-	5	-	9	4	7
Aeronautical and aviation technologies	209	11	118	13	14	15	7	31
Engineering graphics (tool and machine drafting and design)	40	24	-	6	-	3	5	2
Architectural drafting technologies	187	95	2	13	-	32	24	21
Chemical technologies (include plastics)	13	3	1	1	1	5	1	1
Automotive technologies	20	13	-	-	-	-	-	7

Table 23.0

Employment Status by Degree Field for Associate Degree Graduates for All Institutions (continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
MECHANICAL AND ENGINEERING TECHNOLOGIES (cont'd)								
Diesel technologies	83	56	10	1	-	-	4	12
Welding technologies	14	9	-	-	-	-	4	1
Civil technologies (surveying photogrammetry, etc.)	73	28	-	9	-	10	6	20
Electronics and machine technologies (television appliance, office machine repair, etc.)	429	168	52	46	6	50	84	23
Industrial technologies	30	9	-	1	-	3	-	17
Textile technologies	1	1	-	-	-	-	-	-
Mechanical technologies	44	24	4	4	-	8	1	3
Construction and building technologies (carpentry, electrical work, plumbing, sheetmetal, air conditioning, heating, etc.)	263	124	14	38	-	34	29	24
Other: Engr. draft.	9	3	-	-	-	2	-	4
Tech. illust.	6	1	3	-	-	-	-	2
Toolmaking	9	6	2	-	-	-	-	1
Ind. super.	43	43	-	-	-	-	-	-
Struct. design	8	8	-	-	-	-	-	-
Power tech.	8	4	4	-	-	-	-	-
Other	11	3	-	3	-	4	1	-
NATURAL SCIENCE TECHNOLOGIES Total	154	62	1	8	1	35	7	40
Natural science technologies, general	12	-	-	-	-	8	3	1
Agriculture technologies (include horticulture)	45	28	-	4	-	4	1	8
Forestry and wildlife technologies (include fisheries)	45	14	1	-	1	11	-	18
Food services technologies	14	7	-	1	-	2	-	4
Laboratory technologies, general	7	1	-	-	-	4	-	2
Other: (specify)	31	12	-	3	-	6	3	7
BUSINESS AND COMMERCE TECHNOLOGIES Total	2,523	1,325	134	116	9	332	193	414
Business and commerce technologies, general	290	103	2	16	1	74	22	72
Accounting technologies	307	146	10	16	4	65	33	33
Banking and finance technologies	29	11	-	3	-	4	-	11
Marketing, distribution, purchasing, business and industrial management technologies	301	162	11	11	2	53	16	46
Secretarial technologies (include office machines training)	930	691	32	30	-	36	50	91
Personal service technologies (stewardess, cosmetologist, etc.)	41	-	-	-	-	-	-	41
Photography technologies	7	-	-	-	-	1	-	6
Communications and broadcasting technologies (radio/television, newspapers)	51	12	8	2	-	19	-	10

Table 23.0

Employment Status by Degree Field for Associate Degree Graduates for All Institutions
(continued)

REGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
BUSINESS AND COMMERCE TECHNOLOGIES (cont'd)								
Hotel and restaurant management technologies	53	20	-	1	-	10	6	16
Transportation and public utility technologies	19	6	1	1	-	6	3	2
Applied arts, graphic arts, and fine arts technologies (include advertising design)	471	165	70	36	2	60	59	79
Other: (unspecified)	17	7	-	-	-	-	4	6
Journalism	7	2	-	-	-	4	-	1
PUBLIC SERVICE RELATED TECHNOLOGIES Total	1,198	347	13	66	12	347	89	324
Public service technologies, general	26	17	-	3	-	-	2	4
Bible study or religion-related occupations	9	-	-	5	2	2	-	-
Education technologies (teacher aide and 2-year teacher training programs)	227	51	6	16	3	75	17	59
Library assistant technologies	15	6	-	-	1	7	1	-
Police, law enforcement, corrections technologies	514	174	5	30	3	161	21	120
Recreation and social work related technologies	85	16	1	1	3	42	20	2
Fire control technology	56	39	-	4	-	-	2	11
Public administration and management technologies	13	8	-	-	-	4	1	-
Other: Interior Design	3	3	-	-	-	-	-	-
Pedology	76	5	-	1	-	1	20	49
Public contact rep.	13	7	1	2	-	-	3	-
A.G.S.	161	21	-	4	-	55	2	79
ARTS AND SCIENCE TRANSFERS Total	2,102	143	1	162	28	1,232	15	521
Arts and science transfers who enter 4-year programs	2,066	143	1	156	24	1,215	14	513
Undeclared majors	36	-	-	6	4	17	1	8

Table 23.1

Employment Status by Degree Field for Associate Degree Recipients for Community Colleges

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
DATA PROCESSING TECHNOLOGIES Total	159	81	-	16	-	22	15	25
Data processing, technologies, general	128	64	-	16	-	19	14	15
Computer programmer technologies	24	11	-	-	-	3	1	9
Computer operator and peripheral equipment operation technologies	7	6	-	-	-	-	-	1
HEALTH SERVICES AND PARA-MEDICAL TECHNOLOGIES Total	1,381	849	19	33	1	116	99	264
Health services assistant technologies, general	23	5	-	-	-	9	1	8
Dental assistant technologies	29	16	1	3	-	2	3	4
Dental hygiene technologies	46	44	1	-	-	-	-	1
Medical or biological laboratory assistant technologies	61	44	1	3	-	3	10	
Radiologic technologies (X-ray, etc.)	8	8	-	-	-	-	-	-
Nursing, R.N. (less than 4-year program)	613	397	7	11	-	48	29	121
Nursing, practical (L.P.N. or L.V.N.--less than 4-year program)	307	194	3	10	-	33	34	33
Occupational therapy technologies	24	17	-	-	-	2	4	1
Surgical technologies	11	2	-	1	-	1	2	5
Medical record technologies	42	19	-	1	-	6	8	8
Medical assistant and medical office assistant technologies	51	23	-	2	-	-	5	21
Inhalation therapy technologies	40	14	-	-	-	6	3	17
Psychiatric technologies	43	25	-	1	1	2	-	14
Physical therapy technologies	26	18	6	1	-	1	-	-
Other: (unspecified)	46	13	-	-	-	3	-	30
Medical secretary	11	10	-	-	-	-	-	1
MECHANICAL AND ENGINEERING TECHNOLOGIES Total	622	276	14	53	4	114	48	113
Mechanical and engineering technologies, general	33	12	-	5	-	6	4	6
Aeronautical and aviation technologies	24	4	-	6	2	11	1	-
Engineering graphics (tool and machine drafting and design)	15	7	-	2	-	2	3	1
Architectural drafting technologies	87	28	-	5	-	29	6	19
Chemical technologies (include plastics)	13	3	1	1	1	5	1	1
Automotive technologies	20	13	-	-	-	-	-	7
Diesel technologies	26	22	-	-	-	-	4	-
Welding technologies	14	9	-	-	-	-	4	1
Civil technologies (surveying photogrammetry, etc.)	73	28	-	9	-	10	6	20

Table 23.1

Employment Status by Degree Field for Associate Degree Recipients for Community Colleges
(continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
MECHANICAL AND ENGINEERING TECHNOLOGIES (cont'd)								
Electronics and machine technologies (television appliance, office machine repair, etc.)	145	49	6	19	1	34	18	18
Industrial technologies	17	1	-	-	-	-	-	16
Textile technologies	1	1						
Mechanical technologies	27	16	2	-	-	5	1	3
Construction and building technologies (carpentry, electrical work, plumbing, sheetmetal, air conditioning, heating, etc.)	52	22	-	6	-	10	-	14
Other: Specify								
Engineering drafting	9	3	-	-	-	2	-	4
Tech. illust.	6	1	3	-	-	-	-	2
Toolmaking	9	6	2	-	-	-	-	1
Indus. supv.	43	43	-	-	-	-	-	-
Structural design	8	8	-	-	-	-	-	-
NATURAL SCIENCE TECHNOLOGIES Total	123	43	1	4	1	31	6	37
Natural science technologies, general	12	-	-	-	-	8	3	1
Agriculture technologies (include horticulture)	14	9	-	-	-	-	-	5
Forestry and wildlife technologies (include fisheries)	45	14	1	-	1	11	-	18
Food services technologies	14	7	-	-	-	2	-	4
Laboratory technologies general	7	1	-	-	-	4	-	2
Other: (unspecified)	4	2	-	1	-	1		
Floriculture	7	3	-	-	-	1	-	3
Environmental studies	20	7	-	2	-	4	3	4
BUSINESS AND COMMERCE TECHNOLOGIES Total	1,234	508	21	71	8	259	84	283
Business and commerce technologies, general	214	65	-	9	1	57	13	69
Accounting technologies	168	53	5	9	4	48	21	28
Banking and finance technologies	29	11	-	3	-	4	-	11
Marketing, distribution, purchasing, business and industrial management technologies	183	81	4	8	2	43	13	32
Secretarial technologies (include office machines training	359	238	3	20	-	29	22	47
Personal service technologies (stewardess, cosmetologist, etc.)	41	-	-	-	-	-	-	41
Photography technologies	7	-	-	-	-	1	-	6

Table 23.1

Employment Status by Degree Field for Associate Degree Recipients for Community Colleges
(continued)

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
BUSINESS AND COMMERCE TECHNOLOGIES (cont'd)								
Communications and broadcasting technologies (radio/television, newspapers	51	12	8	2	-	1[a]	-	10
Hotel and restaurant management technologies	53	20	-	1	-	10	6	16
Transportation and public utility technologies	8	-	-	1	-	5	-	2
Applied arts, graphic arts, and fine arts technologies (include advertising design)	103	25	1	18	1	39	5	14
Other: (unspecified)	11	1	-	-	-	-	4	6
Journalism	7	2	-	-	-	4	-	1
PUBLIC SERVICE-RELATED TECHNOLOGIES Total	1,118	301	13	55	10	338	85	316
Education technologies (teacher aide and 2-year teacher training programs)	227	51	6	16	3	75	17	59
Library assistant technologies	15	6	-	-	1	7	1	
Police, law enforcement, corrections technologies	478	153	5	27	3	154	20	116
Recreation and social work related technologies	85	16	1	1	3	42	20	2
Fire control technology	56	39	-	4	-	-	2	11
Public administration and management technologies	7	3	-	-	-	4	-	-
Other: Pedology	76	5	-	1	-	1	20	49
Public contact rep.	13	7	1	2	-	-	3	-
A.G.S.	161	21	-	4	-	55	2	79
ARTS AND SCIENCE TRANSFERS								
Arts and science transfers who enter 4-year programs	2,040	142	-	156	24	1,196	14	508

Table 23.2

Employment Status by Degree Field for Associate Degree Recipients for Proprietary Institutions

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
DATA PROCESSING TECHNOLOGIES Total	189	112	11	10	-	5	34	17
Data processing, technologies, general	152	89	11	9	-	4	33	6
Keypunch operator and other input preparation technologies	27	16	-	1	-	1	-	9
Computer programmer technologies	7	4	-	-	-	-	1	2
Computer operator and peripheral equipment operation technologies	3	3	-	-	-	-	-	-
HEALTH SERVICES AND PARAMEDICAL TECHNOLOGIES								
Medical assistant and medical office assistant technologies	59	51	1	-	-	1	-	6
MECHANICAL AND ENGINEERING TECHNOLOGIES Total	850	365	193	82	17	20	116	57
Mechanical and engineering technologies, general	10	10	-	-	-	-	-	-
Aeronautical and aviation technologies	185	7	118	7	12	4	6	31
Engineering graphics (tool and machine drafting and design)	25	17	-	4	-	1	2	1
Architectural drafting technologies	100	67	2	8	-	3	18	2
Diesel technologies	57	34	10	1	-	-	-	12
Electronics and machine technologies (television appliance, office machine repair, etc.)	264	117	45	26	5	5	62	4
Industrial technologies	7	6	-	1	-	-	-	-
Mechanical technologies	5	3	-	2	-	-	-	-
Construction and building technologies (carpentry, electrical work, plumbing, sheetmetal, air conditioning, heating, etc.)	181	98	14	30	-	5	27	7
Other: (Unspecified)	8	2	-	3	-	2	1	-
Power technologies	8	4	4	-	-	-	-	-
BUSINESS AND COMMERCE TECHNOLOGIES Total	1,039	667	103	40	-	56	84	89
Business and commerce technologies, general	67	37	2	7	-	12	6	3
Accounting technologies	131	89	4	7	-	14	12	5
Marketing distribution, purchasing, business and industrial management technologies	99	74	7	3	-	4	2	9
Secretarial technologies (include office machines training)	367	317	20	7	-	4	7	12
Transportation and public utility technologies	11	6	1	-	-	1	3	-
Applied arts, graphic arts, and fine arts technologies (include advertising design)	358	138	69	16	-	21	54	60
Other: Specify	6	6	-	-	-	-	-	-
PUBLIC SERVICE-RELATED TECHNOLOGIES Total	29	22	-	-	-	-	3	4
Public service technologies, general	20	14	-	-	-	-	2	4
Public administration and management technologies	6	5	-	-	-	-	1	-
Other: Interior design	3	3	-	-	-	-	-	-

Table 23.3

Employment Status by Degree Field for Associate Degree Recipients for Four-Year Colleges and Universities

HEGIS Degree Field	Total Reported	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Pursuing Advanced Degree	Unemployed	All Others
DATA PROCESSING TECHNOLOGIES Total	3	1	-	-	-	1	-	1
Computer programmer technologies	2	1	-	-	-	-	-	1
Computer operator and peripheral equipment operation technologies	1	-	-	-	-	1	-	-
HEALTH SERVICES AND PARA-MEDICAL TECHNOLOGIES Total	155	106	6	-	-	38	5	-
Medical or biological laboratory assistant technologies	14	3	1	-	-	8	2	
Nursing, practical (L.P.N. or L.V.N.--less than 4-year program	134	99	4	-	-	30	1	-
Inhalation therapy technologies	6	4	-	-	-	-	2	-
Other: Nuclear med. tech.	1	-	1	-	-	-	-	-
MECHANICAL AND ENGINEERING TECHNOLOGIES Total	75	24	3	5	-	41	6	6
Mechanical and engineering technologies, general	4	-	-	-	-	3	-	1
Electronics and machine technologies (television appliance, office machine repair, etc.)	20	2	1	1	-	11	4	1
Industrial technologies	6	2	-	-	-	3	-	1
Mechanical technologies	12	5	2	2	-	3	-	-
Construction and building technologies (carpentry, electrical work, plumbing, sheetmetal, air conditioning, heating, etc.)	30	4	-	2	-	19	2	3
Other: (unspecified)	3	1	-	-	-	2	-	-
NATURAL SCIENCE TECHNOLOGIES								
Agriculture technologies (include horticulture)	31	19	-	4	-	4	1	3

Table 23.3

Employment Status by Degree Field for Associate Degree Recipients for Four-Year Colleges and Universities (continued)

HECIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Pursuing Advanced Degree	Unemployed	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
BUSINESS AND COMMERCE TECHNOLOGIES Total	250	150	10	5	1	17	25	42
Business and commerce technologies, general	9	1	-	-	-	5	3	-
Accounting technologies	8	4	1	-	-	3	-	-
Marketing, distribution, purchasing, business and industrial management technologies	19	7	-	-	-	6	1	5
Secretarial technologies (including office machines training)	204	136	9	3	-	3	21	32
Applied arts, graphic arts, and fine arts technologies (include advertising design)	10	2	-	2	1	-	-	5
PUBLIC SERVICE-RELATED TECHNOLOGIES Total	51	24	-	11	2	9	1	4
Public service technologies, general	6	3	-	3	-	-	-	-
Bible study or religion-related occupations	9	-	-	5	2	2	-	-
Police, law enforcement, corrections technologies	36	21	-	3	-	7	1	4
ARTS AND SCIENCE TRANSFERS Total	62	1	1	6	4	36	1	13
Arts and science transfers who enter 4-year programs	26	1	1	-	-	19	-	5
Other: Undeclared majors	36	-	-	6	4	17	1	8